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Administration

# Petroleum Supply Monthly

with data for July 2019

September 2019



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## Preface

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The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

### Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

### Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
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**Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>	
<b>Crude Oil<sup>4</sup></b>	<b>365,992</b>	--	--	<b>214,988</b>	<b>13,052</b>	<b>-21,911</b>	<b>532,430</b>	<b>83,512</b>	<b>0</b>	<b>1,086,868</b>
<b>Hydrocarbon Gas Liquids</b>	<b>145,049</b>	<b>-658</b>	<b>26,412</b>	<b>5,551</b>	--	<b>12,247</b>	<b>13,884</b>	<b>57,131</b>	<b>93,092</b>	<b>241,177</b>
Natural Gas Liquids	145,049	-658	17,405	4,886	--	11,950	13,884	57,131	83,717	233,320
Ethane	51,630	--	173	--	--	-3,435	--	8,344	46,894	56,780
Propane	48,671	--	9,064	3,246	--	6,116	--	35,500	19,365	77,821
Normal Butane	13,616	--	8,644	1,261	--	8,849	1,655	8,792	4,225	67,017
Isobutane	12,797	--	-476	372	--	-194	6,666	231	5,990	11,381
Natural Gasoline	18,335	-658	--	7	--	614	5,563	4,265	7,242	20,321
Refinery Olefins	--	--	9,007	665	--	297	--	--	9,375	7,857
Ethylene	--	--	13	--	--	0	--	--	13	0
Propylene	--	--	8,879	493	--	-642	--	--	10,014	5,942
Normal Butylene	--	--	114	172	--	947	--	--	-661	1,882
Isobutylene	--	--	1	--	--	-8	--	--	9	33
<b>Other Liquids</b>	--	<b>39,144</b>	--	<b>53,400</b>	<b>6,964</b>	<b>5,612</b>	<b>80,306</b>	<b>15,850</b>	<b>-2,260</b>	<b>340,998</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	39,148	--	1,552	3,735	775	38,125	5,535	0	31,480
Hydrogen	--	--	--	--	6,714	--	6,714	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,831	--	129	-674	6	--	2,280	0	1,732
Renewable Fuels (including Fuel Ethanol)	--	36,317	--	1,423	-2,334	785	31,366	3,255	0	29,724
Fuel Ethanol <sup>5</sup>	--	32,541	--	544	-107	662	29,453	2,863	0	23,235
Renewable Fuels Except Fuel Ethanol	--	3,776	--	879	-2,227	123	1,913	392	0	6,489
Other Hydrocarbons	--	--	--	--	29	-16	45	--	0	24
Unfinished Oils	--	--	--	23,265	--	213	18,363	6,932	-2,243	96,116
Motor Gasoline Blend.Comp. (MGBG) <sup>5</sup>	--	-4	--	28,583	3,229	4,621	23,804	3,383	0	213,372
Reformulated	--	--	--	6,265	2,557	395	8,405	22	0	52,489
Conventional	--	-4	--	22,318	672	4,226	15,399	3,361	0	160,883
Aviation Gasoline Blend. Comp.	--	--	--	--	--	3	14	--	-17	30
<b>Finished Petroleum Products</b>	--	<b>150</b>	<b>633,619</b>	<b>22,133</b>	<b>-993</b>	<b>8,609</b>	--	<b>94,136</b>	<b>552,164</b>	<b>290,448</b>
Finished Motor Gasoline	--	150	317,439	1,394	-3,122	893	--	20,960	294,007	21,872
Reformulated	--	--	101,500	--	-2,031	14	--	--	99,455	48
Conventional	--	150	215,939	1,394	-1,091	879	--	20,960	194,552	21,824
Finished Aviation Gasoline	--	--	472	45	--	-64	--	--	581	945
Kerosene-Type Jet Fuel	--	--	59,592	6,624	--	2,687	--	6,483	57,046	43,257
Kerosene	--	--	301	--	--	266	--	--	35	2,096
Distillate Fuel Oil <sup>5</sup>	--	--	162,546	5,345	2,129	6,957	--	41,949	121,114	137,797
15 ppm sulfur and under	--	--	154,206	4,020	2,129	5,637	--	34,415	120,303	123,847
Greater than 15 ppm to 500 ppm sulfur	--	--	3,079	33	--	-297	--	3,364	45	3,498
Greater than 500 ppm sulfur	--	--	5,261	1,292	--	1,617	--	4,170	766	10,452
Residual Fuel Oil <sup>6</sup>	--	--	12,087	3,163	--	269	--	4,404	10,577	30,608
Less than 0.31 percent sulfur	--	--	1,716	647	--	0	--	NA	NA	3,821
0.31 to 1.00 percent sulfur	--	--	1,973	388	--	244	--	NA	NA	4,700
Greater than 1.00 percent sulfur	--	--	8,398	2,128	--	23	--	NA	NA	22,079
Petrochemical Feedstocks	--	--	9,547	463	--	243	--	--	9,767	3,287
Naphtha for Petro. Feed. Use	--	--	6,160	404	--	129	--	--	6,435	2,398
Other Oils for Petro. Feed. Use	--	--	3,387	59	--	114	--	--	3,332	889
Special Naphthas	--	--	1,035	836	--	-75	--	--	1,946	1,106
Lubricants	--	--	5,635	2,202	--	426	--	3,339	4,072	10,736
Waxes	--	--	159	112	--	20	--	123	128	683
Petroleum Coke	--	--	28,008	150	--	-546	--	16,182	12,522	8,871
Marketable	--	--	21,009	150	--	-546	--	16,182	5,523	8,871
Catalyst	--	--	6,999	--	--	--	--	--	6,999	--
Asphalt and Road Oil	--	--	12,243	1,798	--	-2,474	--	643	15,872	28,567
Still Gas	--	--	21,696	--	--	--	--	--	21,696	--
Miscellaneous Products	--	--	2,859	1	--	7	--	52	2,801	623
<b>Total</b>	<b>511,041</b>	<b>38,636</b>	<b>660,031</b>	<b>296,072</b>	<b>19,023</b>	<b>4,557</b>	<b>626,620</b>	<b>250,630</b>	<b>642,995</b>	<b>1,959,491</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).  
<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels)

Commodity	Supply					Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>	Ending Stocks
<b>Crude Oil<sup>4</sup></b>	<b>2,530,561</b>	--	--	<b>1,490,772</b>	<b>90,564</b>	<b>-4,065</b>	<b>3,515,743</b>	<b>600,219</b>	<b>0</b>	<b>1,086,868</b>
<b>Hydrocarbon Gas Liquids</b>	<b>1,001,635</b>	<b>-4,316</b>	<b>146,297</b>	<b>45,392</b>	--	<b>52,660</b>	<b>108,989</b>	<b>366,768</b>	<b>660,591</b>	<b>241,177</b>
Natural Gas Liquids	1,001,635	-4,316	87,530	41,024	--	52,959	108,989	366,768	597,157	233,320
Ethane	390,030	--	1,012	--	--	7,140	--	57,103	326,799	56,780
Propane	325,464	--	61,374	29,609	--	14,163	--	221,673	180,611	77,821
Normal Butane	86,751	--	27,354	8,475	--	29,282	29,941	54,554	8,803	67,017
Isobutane	86,892	--	-2,210	2,907	--	2,891	45,454	1,079	38,165	11,381
Natural Gasoline	112,498	-4,316	--	33	--	-517	33,594	32,360	42,778	20,321
Refinery Olefins	--	--	58,767	4,368	--	-299	--	--	63,434	7,857
Ethylene	--	--	67	--	--	0	--	--	67	0
Propylene	--	--	59,739	3,252	--	-1,004	--	--	63,995	5,942
Normal Butylene	--	--	-1,011	1,086	--	807	--	--	-732	1,882
Isobutylene	--	--	-28	30	--	-102	--	--	104	33
<b>Other Liquids</b>	--	<b>260,528</b>	--	<b>293,074</b>	<b>43,498</b>	<b>3,194</b>	<b>483,769</b>	<b>107,365</b>	<b>2,773</b>	<b>340,998</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	260,559	--	8,326	20,409	105	252,751	36,438	0	31,480
Hydrogen	--	--	--	--	44,788	--	44,788	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	17,325	--	694	-4,228	181	30	13,580	0	1,732
Renewable Fuels (including Fuel Ethanol)	--	243,234	--	7,605	-20,328	-79	207,732	22,858	0	29,724
Fuel Ethanol <sup>5</sup>	--	218,902	--	1,682	-4,714	-103	195,000	20,973	0	23,235
Renewable Fuels Except Fuel Ethanol	--	24,332	--	5,923	-15,614	24	12,732	1,886	0	6,489
Other Hydrocarbons	--	--	--	27	177	3	201	--	0	24
Unfinished Oils	--	--	--	127,057	--	10,260	65,218	48,759	2,820	96,116
Motor Gasoline Blend.Comp. (MGB) <sup>5</sup>	--	-31	--	157,691	23,089	-7,170	165,752	22,167	0	213,372
Reformulated	--	-3	--	36,716	48,155	2,388	82,359	121	0	52,489
Conventional	--	-28	--	120,975	-25,066	-9,558	83,393	22,046	0	160,883
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-1	48	--	-47	30
<b>Finished Petroleum Products</b>	--	<b>846</b>	<b>4,188,329</b>	<b>149,062</b>	<b>-3,687</b>	<b>-3,841</b>	--	<b>683,473</b>	<b>3,654,918</b>	<b>290,448</b>
Finished Motor Gasoline	--	846	2,127,241	14,403	-18,375	-3,860	--	165,207	1,962,768	21,872
Reformulated	--	--	684,473	--	-45,056	4	--	--	639,413	48
Conventional	--	846	1,442,768	14,403	26,681	-3,864	--	165,207	1,323,355	21,824
Finished Aviation Gasoline	--	--	2,628	173	--	-11	--	--	2,812	945
Kerosene-Type Jet Fuel	--	--	377,247	35,069	--	1,671	--	43,561	367,084	43,257
Kerosene	--	--	1,477	101	--	-499	--	563	1,514	2,096
Distillate Fuel Oil <sup>5</sup>	--	--	1,090,299	42,157	14,688	-2,209	--	278,196	871,157	137,797
15 ppm sulfur and under	--	--	1,019,288	38,629	14,688	251	--	221,501	850,853	123,847
Greater than 15 ppm to 500 ppm sulfur	--	--	27,140	598	--	-1,613	--	26,896	2,455	3,498
Greater than 500 ppm sulfur	--	--	43,871	2,930	--	-847	--	29,799	17,849	10,452
Residual Fuel Oil <sup>6</sup>	--	--	79,862	29,722	--	2,294	--	51,187	56,103	30,608
Less than 0.31 percent sulfur	--	--	12,053	3,515	--	1,676	--	NA	NA	3,821
0.31 to 1.00 percent sulfur	--	--	11,164	4,097	--	-17	--	NA	NA	4,700
Greater than 1.00 percent sulfur	--	--	56,645	22,110	--	633	--	NA	NA	22,079
Petrochemical Feedstocks	--	--	62,976	3,546	--	-117	--	--	66,639	3,287
Naphtha for Petro. Feed. Use	--	--	41,686	2,860	--	4	--	--	44,542	2,398
Other Oils for Petro. Feed. Use	--	--	21,290	686	--	-121	--	--	22,097	889
Special Naphthas	--	--	6,525	3,299	--	-355	--	--	10,179	1,106
Lubricants	--	--	34,482	9,892	--	-3,219	--	23,650	23,943	10,736
Waxes	--	--	982	1,048	--	7	--	845	1,178	683
Petroleum Coke	--	--	177,989	1,329	--	972	--	114,453	63,893	8,871
Marketable	--	--	131,642	1,329	--	972	--	114,453	17,546	8,871
Catalyst	--	--	46,347	--	--	--	--	--	46,347	--
Asphalt and Road Oil	--	--	66,830	8,316	--	1,522	--	5,445	68,179	28,567
Still Gas	--	--	141,510	--	--	--	--	--	141,510	--
Miscellaneous Products	--	--	18,281	7	--	-37	--	366	17,959	623
<b>Total</b>	<b>3,532,196</b>	<b>257,058</b>	<b>4,334,626</b>	<b>1,978,300</b>	<b>130,375</b>	<b>47,948</b>	<b>4,108,501</b>	<b>1,757,825</b>	<b>4,318,282</b>	<b>1,959,491</b>

-- = Not Applicable.

NA = No Data Reported.

N = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>
<b>Crude Oil<sup>4</sup></b> .....	<b>11,806</b>	--	--	<b>6,935</b>	<b>421</b>	<b>-707</b>	<b>17,175</b>	<b>2,694</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>4,679</b>	<b>-21</b>	<b>852</b>	<b>179</b>	--	<b>395</b>	<b>448</b>	<b>1,843</b>	<b>3,003</b>
Natural Gas Liquids .....	4,679	-21	561	158	--	385	448	1,843	2,701
Ethane .....	1,665	--	6	--	--	-111	--	269	1,513
Propane .....	1,570	--	292	105	--	197	--	1,145	625
Normal Butane .....	439	--	279	41	--	285	53	284	136
Isobutane .....	413	--	-15	12	--	-6	215	7	193
Natural Gasoline .....	591	-21	--	0	--	20	179	138	234
Refinery Olefins .....	--	--	291	21	--	10	--	--	302
Ethylene .....	--	--	0	--	--	0	--	--	0
Propylene .....	--	--	286	16	--	-21	--	--	323
Normal Butylene .....	--	--	4	6	--	31	--	--	-21
Isobutylene .....	--	--	0	--	--	0	--	--	0
<b>Other Liquids</b> .....	--	<b>1,263</b>	--	<b>1,723</b>	<b>225</b>	<b>181</b>	<b>2,591</b>	<b>511</b>	<b>-73</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	--	1,263	--	50	120	25	1,230	179	0
Hydrogen .....	--	--	--	--	217	--	217	--	0
Oxygenates (excluding Fuel Ethanol) .....	--	91	--	4	-22	0	--	74	0
Renewable Fuels (including Fuel Ethanol) .....	--	1,172	--	46	-75	25	1,012	105	0
Fuel Ethanol <sup>5</sup> .....	--	1,050	--	18	-3	21	950	92	0
Renewable Fuels Except Fuel Ethanol .....	--	122	--	28	-72	4	62	13	0
Other Hydrocarbons .....	--	--	--	--	1	-1	1	--	0
Unfinished Oils .....	--	--	--	750	--	7	592	224	-72
Motor Gasoline Blend.Comp. (MGBC) <sup>5</sup> .....	--	0	--	922	104	149	768	109	0
Reformulated .....	--	--	--	202	82	13	271	1	0
Conventional .....	--	0	--	720	22	136	497	108	0
Aviation Gasoline Blend. Comp. ....	--	--	--	--	--	0	0	--	-1
<b>Finished Petroleum Products</b> .....	--	<b>5</b>	<b>20,439</b>	<b>714</b>	<b>-32</b>	<b>278</b>	--	<b>3,037</b>	<b>17,812</b>
Finished Motor Gasoline .....	--	5	10,240	45	-101	29	--	676	9,484
Reformulated .....	--	--	3,274	--	-66	0	--	--	3,208
Conventional .....	--	5	6,966	45	-35	28	--	676	6,276
Finished Aviation Gasoline .....	--	--	15	1	--	-2	--	--	19
Kerosene-Type Jet Fuel .....	--	--	1,922	214	--	87	--	209	1,840
Kerosene .....	--	--	10	--	--	9	--	--	1
Distillate Fuel Oil <sup>5</sup> .....	--	--	5,243	172	69	224	--	1,353	3,907
15 ppm sulfur and under .....	--	--	4,974	130	69	182	--	1,110	3,881
Greater than 15 ppm to 500 ppm sulfur .....	--	--	99	1	--	-10	--	109	1
Greater than 500 ppm sulfur .....	--	--	170	42	--	52	--	135	25
Residual Fuel Oil <sup>6</sup> .....	--	--	390	102	--	9	--	142	341
Less than 0.31 percent sulfur .....	--	--	55	21	--	0	--	NA	NA
0.31 to 1.00 percent sulfur .....	--	--	64	13	--	8	--	NA	NA
Greater than 1.00 percent sulfur .....	--	--	271	69	--	1	--	NA	NA
Petrochemical Feedstocks .....	--	--	308	15	--	8	--	--	315
Naphtha for Petro. Feed. Use .....	--	--	199	13	--	4	--	--	208
Other Oils for Petro. Feed. Use .....	--	--	109	2	--	4	--	--	107
Special Naphthas .....	--	--	33	27	--	-2	--	--	63
Lubricants .....	--	--	182	71	--	14	--	108	131
Waxes .....	--	--	5	4	--	1	--	4	4
Petroleum Coke .....	--	--	903	5	--	-18	--	522	404
Marketable .....	--	--	678	5	--	-18	--	522	178
Catalyst .....	--	--	226	--	--	--	--	--	226
Asphalt and Road Oil .....	--	--	395	58	--	-80	--	21	512
Still Gas .....	--	--	700	--	--	--	--	--	700
Miscellaneous Products .....	--	--	92	0	--	0	--	2	90
<b>Total</b> .....	<b>16,485</b>	<b>1,246</b>	<b>21,291</b>	<b>9,551</b>	<b>614</b>	<b>147</b>	<b>20,214</b>	<b>8,085</b>	<b>20,742</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.



**Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>
<b>Crude Oil<sup>4</sup></b> .....	<b>11,937</b>	--	--	<b>7,032</b>	<b>427</b>	<b>-19</b>	<b>16,584</b>	<b>2,831</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>4,725</b>	<b>-20</b>	<b>690</b>	<b>214</b>	--	<b>248</b>	<b>514</b>	<b>1,730</b>	<b>3,116</b>
Natural Gas Liquids .....	4,725	-20	413	194	--	250	514	1,730	2,817
Ethane .....	1,840	--	--	--	--	34	--	269	1,542
Propane .....	1,535	--	290	140	--	67	--	1,046	852
Normal Butane .....	409	--	129	40	--	138	141	257	42
Isobutane .....	410	--	22	14	--	14	214	5	180
Natural Gasoline .....	531	-20	--	0	--	-2	158	153	202
Refinery Olefins .....	--	--	277	21	--	-1	--	--	299
Ethylene .....	--	--	0	--	--	0	--	--	0
Propylene .....	--	--	282	15	--	-5	--	--	302
Normal Butylene .....	--	--	-5	5	--	4	--	--	-3
Isobutylene .....	--	--	198	0	--	0	--	--	0
<b>Other Liquids</b> .....	--	<b>1,229</b>	--	<b>1,382</b>	<b>205</b>	<b>15</b>	<b>2,282</b>	<b>506</b>	<b>13</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	--	1,229	--	39	96	0	1,192	172	0
Hydrogen .....	--	--	--	--	211	--	211	--	0
Oxygenates (excluding Fuel Ethanol) .....	--	82	--	3	-20	1	0	64	0
Renewable Fuels (including Fuel Ethanol) .....	--	1,147	--	36	-96	0	980	108	0
Fuel Ethanol <sup>5</sup> .....	--	1,033	--	8	-22	0	920	99	0
Renewable Fuels Except Fuel Ethanol .....	--	115	--	28	-74	0	60	9	0
Other Hydrocarbons .....	--	--	--	0	1	0	1	--	0
Unfinished Oils .....	--	--	--	599	--	48	308	230	13
Motor Gasoline Blend.Comp. (MGBC) <sup>5</sup> .....	--	0	--	744	109	-34	782	105	0
Reformulated .....	--	0	--	173	227	11	388	1	0
Conventional .....	--	0	--	571	-118	-45	393	104	0
Aviation Gasoline Blend. Comp. ....	--	--	--	--	--	0	0	--	0
<b>Finished Petroleum Products</b> .....	--	<b>4</b>	<b>19,756</b>	<b>703</b>	<b>-17</b>	<b>-18</b>	--	<b>3,224</b>	<b>17,240</b>
Finished Motor Gasoline .....	--	4	10,034	68	-87	-18	--	779	9,258
Reformulated .....	--	--	3,229	--	-213	0	--	--	3,016
Conventional .....	--	4	6,806	68	126	-18	--	779	6,242
Finished Aviation Gasoline .....	--	--	12	1	--	0	--	--	13
Kerosene-Type Jet Fuel .....	--	--	1,779	165	--	8	--	205	1,732
Kerosene .....	--	--	7	0	--	-2	--	3	7
Distillate Fuel Oil <sup>5</sup> .....	--	--	5,143	199	69	-10	--	1,312	4,109
15 ppm sulfur and under .....	--	--	4,808	182	69	1	--	1,045	4,013
Greater than 15 ppm to 500 ppm sulfur .....	--	--	128	3	--	-8	--	127	12
Greater than 500 ppm sulfur .....	--	--	207	14	--	-4	--	141	84
Residual Fuel Oil <sup>6</sup> .....	--	--	377	140	--	11	--	241	265
Less than 0.31 percent sulfur .....	--	--	57	17	--	8	--	NA	NA
0.31 to 1.00 percent sulfur .....	--	--	53	19	--	0	--	NA	NA
Greater than 1.00 percent sulfur .....	--	--	267	104	--	3	--	NA	NA
Petrochemical Feedstocks .....	--	--	297	17	--	-1	--	--	314
Naphtha for Petro. Feed. Use .....	--	--	197	13	--	0	--	--	210
Other Oils for Petro. Feed. Use .....	--	--	100	3	--	-1	--	--	104
Special Naphthas .....	--	--	31	16	--	-2	--	--	48
Lubricants .....	--	--	163	47	--	-15	--	112	113
Waxes .....	--	--	5	5	--	0	--	4	6
Petroleum Coke .....	--	--	840	6	--	5	--	540	301
Marketable .....	--	--	621	6	--	5	--	540	83
Catalyst .....	--	--	219	--	--	--	--	--	219
Asphalt and Road Oil .....	--	--	315	39	--	7	--	26	322
Still Gas .....	--	--	668	--	--	--	--	--	668
Miscellaneous Products .....	--	--	86	0	--	0	--	2	85
<b>Total</b> .....	<b>16,661</b>	<b>1,213</b>	<b>20,446</b>	<b>9,332</b>	<b>615</b>	<b>226</b>	<b>19,380</b>	<b>8,292</b>	<b>20,369</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	Ending Stocks
<b>Crude Oil</b>	<b>2,124</b>	--	--	<b>16,560</b>	<b>5,076</b>	<b>976</b>	<b>-4,135</b>	<b>27,510</b>	<b>1,362</b>	<b>0</b>	<b>10,651</b>
<b>Hydrocarbon Gas Liquids</b>	<b>17,473</b>	<b>-15</b>	<b>1,352</b>	<b>908</b>	<b>-2,872</b>	--	<b>660</b>	<b>327</b>	<b>8,197</b>	<b>7,662</b>	<b>9,215</b>
Natural Gas Liquids	17,473	-15	1,030	653	-3,170	--	669	327	8,197	6,778	9,066
Ethane	6,783	--	--	--	--	--	-216	--	2,004	487	493
Propane	6,023	--	462	532	1,674	--	594	--	4,261	3,836	5,457
Normal Butane	2,050	--	560	22	115	--	265	22	1,866	594	2,704
Isobutane	833	--	8	99	-176	--	12	269	1	482	188
Natural Gasoline	1,784	-15	--	--	-275	--	14	36	65	1,379	224
Refinery Olefins	--	--	322	255	--	--	-9	--	--	884	149
Ethylene	--	--	13	--	--	--	--	--	--	13	--
Propylene	--	--	354	255	--	--	23	--	--	884	99
Normal Butylene	--	--	-78	--	--	--	-24	--	--	-54	17
Isobutylene	--	--	33	--	--	--	-8	--	--	41	33
<b>Other Liquids</b>	--	<b>929</b>	--	<b>26,044</b>	<b>63,247</b>	<b>4,184</b>	<b>1,924</b>	<b>92,915</b>	<b>142</b>	<b>-577</b>	<b>71,929</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	932	--	49	9,633	871	322	11,077	86	0	8,802
Hydrogen	--	--	--	--	--	110	--	110	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	932	--	49	9,633	761	322	10,967	85	0	8,802
Fuel Ethanol	--	758	--	--	9,455	1,136	562	10,702	84	0	7,518
Renewable Fuels Except Fuel Ethanol	--	174	--	49	178	-375	-240	265	1	0	1,284
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,323	-18	--	518	1,328	36	-577	5,769
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	24,672	53,632	3,313	1,084	80,510	20	0	57,358
Reformulated	--	--	--	6,009	9,571	1,066	-1,472	18,117	1	0	18,389
Conventional	--	-3	--	18,663	44,061	2,247	2,556	62,393	19	0	38,969
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>120,656</b>	<b>9,978</b>	<b>43,696</b>	<b>-4,073</b>	<b>2,719</b>	--	<b>2,089</b>	<b>165,449</b>	<b>77,609</b>
Finished Motor Gasoline	--	--	104,437	684	1,926	-4,448	263	--	28	102,308	3,717
Reformulated	--	--	41,483	--	--	-187	13	--	--	41,283	30
Conventional	--	--	62,954	684	1,926	-4,261	250	--	28	61,025	3,687
Finished Aviation Gasoline	--	--	--	24	118	--	59	--	--	83	173
Kerosene-Type Jet Fuel	--	--	3,437	1,906	15,675	--	1,530	--	506	18,982	10,575
Kerosene	--	--	145	--	32	--	210	--	--	-33	1,473
Distillate Fuel Oil <sup>6</sup>	--	--	7,520	3,777	23,424	375	1,240	--	766	33,090	45,545
15 ppm sulfur and under	--	--	7,461	3,254	22,131	375	791	--	588	31,842	40,069
Greater than 15 ppm to 500 ppm sulfur	--	--	110	33	--	--	73	--	178	-108	1,369
Greater than 500 ppm sulfur	--	--	-51	490	1,293	--	376	--	--	1,356	4,107
Residual Fuel Oil <sup>7</sup>	--	--	1,233	1,604	--	--	14	--	44	2,779	7,407
Less than 0.31 percent sulfur	--	--	34	57	--	--	7	--	NA	NA	1,651
0.31 to 1.00 percent sulfur	--	--	857	241	--	--	57	--	NA	NA	1,474
Greater than 1.00 percent sulfur	--	--	342	1,306	--	--	-50	--	NA	NA	4,282
Petrochemical Feedstocks	--	--	--	1	305	--	-9	--	--	315	49
Naphtha for Petro. Feed. Use	--	--	--	1	--	--	-9	--	--	10	49
Other Oils for Petro. Feed. Use	--	--	--	--	305	--	--	--	--	305	--
Special Naphthas	--	--	26	--	--	--	-4	--	--	30	39
Lubricants	--	--	413	649	490	--	-76	--	276	1,352	1,012
Waxes	--	--	3	44	--	--	-3	--	55	-5	337
Petroleum Coke	--	--	905	1	550	--	--	--	274	1,182	--
Marketable	--	--	366	1	550	--	--	--	274	643	--
Catalyst	--	--	539	--	--	--	--	--	--	539	--
Asphalt and Road Oil	--	--	1,329	1,288	1,176	--	-500	--	126	4,167	7,252
Still Gas	--	--	1,123	--	--	--	--	--	--	1,123	--
Miscellaneous Products	--	--	85	--	--	--	-5	--	13	77	30
<b>Total</b>	<b>19,597</b>	<b>914</b>	<b>122,008</b>	<b>53,490</b>	<b>109,147</b>	<b>1,086</b>	<b>1,168</b>	<b>120,752</b>	<b>11,789</b>	<b>172,534</b>	<b>169,404</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report", EIA-812, "Monthly Product Pipeline Report", EIA-813, "Monthly Crude Oil Report", EIA-814, "Monthly Imports Report", EIA-815, "Monthly Bulk Terminal and Blender Report", EIA-816, "Monthly Natural Gas Liquids Report", EIA-817, "Monthly Tanker and Barge Movements Report", and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	Ending Stocks
<b>Crude Oil</b>	<b>13,473</b>	--	--	<b>149,535</b>	<b>37,993</b>	<b>4,651</b>	<b>-1,004</b>	<b>204,551</b>	<b>2,104</b>	<b>0</b>	<b>10,651</b>
<b>Hydrocarbon Gas Liquids</b>	<b>115,306</b>	<b>-101</b>	<b>7,825</b>	<b>10,998</b>	<b>-18,163</b>	--	<b>178</b>	<b>8,247</b>	<b>40,376</b>	<b>67,064</b>	<b>9,215</b>
Natural Gas Liquids	115,306	-101	5,252	9,304	-20,377	--	317	8,247	40,376	60,444	9,066
Ethane	46,497	--	--	--	--	--	-350	--	6,501	2,602	493
Propane	39,531	--	3,809	7,775	19,066	--	-530	--	24,489	46,222	5,457
Normal Butane	12,575	--	1,421	313	1,225	--	1,284	4,357	8,368	1,525	2,704
Isobutane	5,493	--	22	1,216	-1,203	--	-6	2,702	7	2,825	188
Natural Gasoline	11,210	-101	--	--	-1,721	--	-81	1,188	1,010	7,271	224
Refinery Olefins	--	--	2,573	1,694	--	--	-139	--	--	6,620	149
Ethylene	--	--	67	--	--	--	--	--	--	67	--
Propylene	--	--	2,538	1,694	--	--	-22	--	--	6,468	99
Normal Butylene	--	--	-230	--	--	--	-90	--	--	-140	17
Isobutylene	--	--	198	--	--	--	-27	--	--	225	33
<b>Other Liquids</b>	--	<b>6,498</b>	--	<b>139,077</b>	<b>417,299</b>	<b>35,576</b>	<b>-406</b>	<b>596,784</b>	<b>1,342</b>	<b>730</b>	<b>71,929</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	6,519	--	1,133	68,272	423	686	74,648	1,014	0	8,802
Hydrogen	--	--	--	--	--	640	--	640	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	6	--	--	6	0	--
Renewable Fuels (including Fuel Ethanol)	--	6,519	--	1,133	68,272	-223	686	74,008	1,008	0	8,802
Fuel Ethanol	--	5,155	--	--	66,373	1,953	937	71,627	917	0	7,518
Renewable Fuels Except Fuel Ethanol	--	1,364	--	1,133	1,900	-2,176	-251	2,381	91	0	1,284
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	11,452	139	--	564	10,116	181	730	5,769
Motor Gasoline Blend Comp. (MGBC)	--	-21	--	126,492	348,888	35,152	-1,656	512,020	147	0	57,358
Reformulated	--	--	--	33,880	55,282	19,431	-443	109,027	9	0	18,389
Conventional	--	-21	--	92,612	293,606	15,722	-1,213	402,993	139	0	38,969
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>811,538</b>	<b>80,379</b>	<b>336,338</b>	<b>-34,985</b>	<b>4,535</b>	--	<b>27,941</b>	<b>1,160,795</b>	<b>77,609</b>
Finished Motor Gasoline	--	--	692,814	10,483	38,376	-37,105	-163	--	2,551	702,180	3,717
Reformulated	--	--	275,115	--	--	-17,418	0	--	--	257,697	30
Conventional	--	--	417,699	10,483	38,376	-19,687	-163	--	2,551	444,483	3,687
Finished Aviation Gasoline	--	--	--	49	600	--	43	--	--	606	173
Kerosene-Type Jet Fuel	--	--	21,074	12,156	105,608	--	2,699	--	3,798	132,341	10,575
Kerosene	--	--	293	101	565	--	-579	--	280	1,258	1,473
Distillate Fuel Oil <sup>6</sup>	--	--	63,029	34,943	177,582	2,121	673	--	9,243	267,758	45,545
15 ppm sulfur and under	--	--	58,782	33,270	167,907	2,121	2,391	--	6,361	253,327	40,069
Greater than 15 ppm to 500 ppm sulfur	--	--	1,508	598	88	--	-1,233	--	2,357	1,070	1,369
Greater than 500 ppm sulfur	--	--	2,739	1,075	9,587	--	-485	--	525	13,361	4,107
Residual Fuel Oil <sup>7</sup>	--	--	8,407	14,950	-347	--	1,374	--	6,501	15,135	7,407
Less than 0.31 percent sulfur	--	--	1,839	996	--	--	750	--	NA	NA	1,651
0.31 to 1.00 percent sulfur	--	--	3,550	1,864	--	--	45	--	NA	NA	1,474
Greater than 1.00 percent sulfur	--	--	3,018	12,090	-347	--	579	--	NA	NA	4,282
Petrochemical Feedstocks	--	--	391	19	268	--	-31	--	--	709	49
Naphtha for Petro. Feed. Use	--	--	391	8	--	--	-31	--	--	430	49
Other Oils for Petro. Feed. Use	--	--	--	11	268	--	--	--	--	279	--
Special Naphthas	--	--	139	2	--	--	-4	--	--	145	39
Lubricants	--	--	2,705	1,648	3,130	--	-289	--	1,535	6,237	1,012
Waxes	--	--	67	472	--	--	-39	--	398	180	337
Petroleum Coke	--	--	5,526	22	3,661	--	--	--	2,935	6,273	--
Marketable	--	--	1,633	22	3,661	--	--	--	2,935	2,380	--
Catalyst	--	--	3,893	--	--	--	--	--	--	3,893	--
Asphalt and Road Oil	--	--	7,397	5,534	7,127	--	855	--	607	18,596	7,252
Still Gas	--	--	9,193	--	--	--	--	--	--	9,193	--
Miscellaneous Products	--	--	503	--	-231	--	-4	--	92	184	30
<b>Total</b>	<b>128,779</b>	<b>6,397</b>	<b>819,363</b>	<b>379,989</b>	<b>773,468</b>	<b>5,242</b>	<b>3,303</b>	<b>809,582</b>	<b>71,763</b>	<b>1,228,589</b>	<b>169,404</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as "Unaccounted For Crude Oil." Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>69</b>	<b>--</b>	<b>--</b>	<b>534</b>	<b>164</b>	<b>31</b>	<b>-133</b>	<b>887</b>	<b>44</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>564</b>	<b>0</b>	<b>44</b>	<b>29</b>	<b>-93</b>	<b>--</b>	<b>21</b>	<b>11</b>	<b>264</b>	<b>247</b>
Natural Gas Liquids	564	0	33	21	-102	--	22	11	264	219
Ethane	219	--	--	--	--	--	-7	--	65	16
Propane	194	--	15	17	54	--	19	--	--	124
Normal Butane	66	--	18	1	4	--	9	1	60	19
Isobutane	27	--	0	3	-6	--	0	9	0	16
Natural Gasoline	58	0	--	--	-9	--	0	1	2	44
Refinery Olefins	--	--	10	8	--	--	0	--	--	29
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	11	8	10	--	1	--	--	29
Normal Butylene	--	--	-3	--	--	--	-1	--	--	-2
Isobutylene	--	--	1	--	--	--	0	--	--	1
<b>Other Liquids</b>	<b>--</b>	<b>30</b>	<b>--</b>	<b>840</b>	<b>2,040</b>	<b>135</b>	<b>62</b>	<b>2,997</b>	<b>5</b>	<b>-19</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30	--	2	311	28	10	357	3	0
Hydrogen	--	--	--	--	--	4	--	4	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	30	--	2	311	25	10	354	3	0
Fuel Ethanol <sup>6</sup>	--	24	--	--	305	37	18	345	3	0
Renewable Fuels Except Fuel Ethanol	--	6	--	2	6	-12	-8	9	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	43	-1	--	17	43	1	-19
Motor Gasoline Blend.Comp. (MGBC) <sup>6</sup>	--	0	--	796	1,730	107	35	2,597	1	0
Reformulated	--	--	--	194	309	34	-47	584	0	0
Conventional	--	0	--	602	1,421	72	82	2,013	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	<b>--</b>	<b>--</b>	<b>3,892</b>	<b>322</b>	<b>1,410</b>	<b>-131</b>	<b>88</b>	<b>--</b>	<b>67</b>	<b>5,337</b>
Finished Motor Gasoline	--	--	3,369	22	62	-143	8	--	1	3,300
Reformulated	--	--	1,338	--	--	-6	0	--	--	1,332
Conventional	--	--	2,031	22	62	-137	8	--	1	1,969
Finished Aviation Gasoline	--	--	--	1	4	--	2	--	--	3
Kerosene-Type Jet Fuel	--	--	111	61	506	--	49	--	16	612
Kerosene	--	--	5	--	1	--	7	--	--	-1
Distillate Fuel Oil <sup>6</sup>	--	--	243	122	756	12	40	--	25	1,067
15 ppm sulfur and under	--	--	241	105	714	12	26	--	19	1,027
Greater than 15 ppm to 500 ppm sulfur	--	--	4	1	--	--	2	--	6	-3
Greater than 500 ppm sulfur	--	--	-2	16	42	--	12	--	--	44
Residual Fuel Oil <sup>7</sup>	--	--	40	52	--	--	0	--	1	90
Less than 0.31 percent sulfur	--	--	1	2	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	28	8	--	--	2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	11	42	--	--	-2	--	NA	NA
Petrochemical Feedstocks	--	--	--	0	10	--	0	--	--	10
Naphtha for Petro. Feed. Use	--	--	--	0	--	--	0	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	--	10	--	--	--	--	10
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	21	16	--	-2	--	9	44
Waxes	--	--	0	1	--	--	0	--	2	0
Petroleum Coke	--	--	29	0	18	--	--	--	9	38
Marketable	--	--	12	0	18	--	--	--	9	21
Catalyst	--	--	17	--	--	--	--	--	--	17
Asphalt and Road Oil	--	--	43	42	38	--	-16	--	4	134
Still Gas	--	--	36	--	--	--	--	--	--	36
Miscellaneous Products	--	--	3	--	--	--	0	--	0	2
<b>Total</b>	<b>632</b>	<b>29</b>	<b>3,936</b>	<b>1,725</b>	<b>3,521</b>	<b>35</b>	<b>38</b>	<b>3,895</b>	<b>380</b>	<b>5,566</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Includes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>64</b>	--	--	<b>705</b>	<b>179</b>	<b>22</b>	<b>-5</b>	<b>965</b>	<b>10</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>544</b>	<b>0</b>	<b>37</b>	<b>52</b>	<b>-86</b>	--	<b>1</b>	<b>39</b>	<b>190</b>	<b>316</b>
Natural Gas Liquids	544	0	25	44	-96	--	1	39	190	285
Ethane	219	--	--	--	--	--	-2	--	31	12
Propane	186	--	18	37	90	--	-3	--	--	218
Normal Butane	59	--	7	1	6	--	6	21	39	7
Isobutane	26	--	0	6	-6	--	0	13	0	13
Natural Gasoline	53	0	--	--	-8	--	0	6	5	34
Refinery Olefins	--	--	12	8	--	--	-1	--	--	31
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	12	8	10	--	0	--	--	31
Normal Butylene	--	--	-1	--	--	--	0	--	--	-1
Isobutylene	--	--	1	--	--	--	0	--	--	1
<b>Other Liquids</b>	--	<b>31</b>	--	<b>656</b>	<b>1,968</b>	<b>168</b>	<b>-2</b>	<b>2,815</b>	<b>6</b>	<b>3</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	31	--	5	322	2	3	352	5	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	5	322	-1	3	349	5	0
Fuel Ethanol <sup>6</sup>	--	24	--	--	313	9	4	338	4	0
Renewable Fuels Except Fuel Ethanol	--	6	--	5	9	-10	-1	11	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	54	1	--	3	48	1	3
Motor Gasoline Blend.Comp. (MGBC) <sup>6</sup>	--	0	--	597	1,646	166	-8	2,415	1	0
Reformulated	--	--	--	160	261	92	-2	514	0	0
Conventional	--	0	--	437	1,385	74	-6	1,901	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>3,828</b>	<b>379</b>	<b>1,587</b>	<b>-165</b>	<b>21</b>	--	<b>132</b>	<b>5,475</b>
Finished Motor Gasoline	--	--	3,268	49	181	-175	-1	--	12	3,312
Reformulated	--	--	1,298	--	--	-82	0	--	--	1,216
Conventional	--	--	1,970	49	181	-93	-1	--	12	2,097
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	99	57	498	--	13	--	18	624
Kerosene	--	--	1	0	3	--	-3	--	1	6
Distillate Fuel Oil <sup>6</sup>	--	--	297	165	838	10	3	--	44	1,263
15 ppm sulfur and under	--	--	277	157	792	10	11	--	30	1,195
Greater than 15 ppm to 500 ppm sulfur	--	--	7	3	0	--	-6	--	11	5
Greater than 500 ppm sulfur	--	--	13	5	45	--	-2	--	2	63
Residual Fuel Oil <sup>7</sup>	--	--	40	71	-2	--	6	--	31	71
Less than 0.31 percent sulfur	--	--	9	5	--	--	4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	17	9	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	14	57	-2	--	3	--	NA	NA
Petrochemical Feedstocks	--	--	2	0	1	--	0	--	--	3
Naphtha for Petro. Feed. Use	--	--	2	0	--	--	0	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	0	1	--	--	--	--	1
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	13	8	15	--	-1	--	7	29
Waxes	--	--	0	2	--	--	0	--	2	1
Petroleum Coke	--	--	26	0	17	--	--	--	14	30
Marketable	--	--	8	0	17	--	--	--	14	11
Catalyst	--	--	18	--	--	--	--	--	--	18
Asphalt and Road Oil	--	--	35	26	34	--	4	--	3	88
Still Gas	--	--	43	--	--	--	--	--	--	43
Miscellaneous Products	--	--	2	--	-1	--	0	--	0	1
<b>Total</b>	<b>607</b>	<b>30</b>	<b>3,865</b>	<b>1,792</b>	<b>3,648</b>	<b>25</b>	<b>16</b>	<b>3,819</b>	<b>339</b>	<b>5,795</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>68,587</b>	--	--	<b>96,746</b>	<b>-29,416</b>	<b>-11,372</b>	<b>-7,478</b>	<b>126,585</b>	<b>5,439</b>	<b>0</b>	<b>134,329</b>
<b>Hydrocarbon Gas Liquids</b>	<b>30,963</b>	<b>-604</b>	<b>6,339</b>	<b>2,703</b>	<b>-8,734</b>	--	<b>5,851</b>	<b>2,372</b>	<b>7,509</b>	<b>14,935</b>	<b>58,345</b>
Natural Gas Liquids	30,963	-604	4,830	2,423	-7,844	--	5,755	2,372	7,509	14,132	57,746
Ethane	9,069	--	--	--	--	--	130	--	3,250	3,160	4,782
Propane	11,705	--	2,438	1,412	-5,989	--	2,793	--	128	6,645	22,797
Normal Butane	4,131	--	2,556	759	-2,712	--	3,504	71	52	1,107	18,653
Isobutane	1,931	--	-164	245	-287	--	-233	1,566	0	392	2,475
Natural Gasoline	4,127	-604	--	7	3,673	--	-439	735	4,079	2,828	9,039
Refinery Olefins	--	--	1,509	280	--	--	96	--	--	803	599
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,295	238	--	--	111	--	--	532	495
Normal Butylene	--	--	214	42	--	--	-15	--	--	271	104
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
<b>Other Liquids</b>	--	<b>32,676</b>	--	<b>370</b>	<b>-8,171</b>	<b>-4,287</b>	<b>-684</b>	<b>20,423</b>	<b>2,382</b>	<b>-1,534</b>	<b>66,188</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32,677	--	125	-19,037	-3,254	-405	9,930	986	0	9,141
Hydrogen	--	--	--	--	--	1,219	--	1,219	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	0	--	2	0	3
Renewable Fuels (including Fuel Ethanol)	--	32,677	--	125	-19,037	-4,503	-389	8,666	984	0	9,114
Fuel Ethanol	--	30,123	--	--	-18,330	-3,666	-671	8,044	755	0	7,852
Renewable Fuels Except Fuel Ethanol	--	2,554	--	125	-708	-838	282	622	229	0	1,262
Other Hydrocarbons	--	--	--	--	--	29	-16	45	--	0	24
Unfinished Oils	--	--	--	125	-657	--	-187	-55	1,244	-1,534	13,603
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	120	11,523	-1,034	-92	10,548	152	0	43,444
Reformulated	--	--	--	--	4,341	-2,229	111	2,001	--	0	6,410
Conventional	--	-1	--	120	7,182	1,195	-203	8,547	152	0	37,034
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	<b>150</b>	<b>150,503</b>	<b>1,140</b>	<b>1,141</b>	<b>5,551</b>	<b>-288</b>	--	<b>1,329</b>	<b>157,444</b>	<b>63,043</b>
Finished Motor Gasoline	--	150	83,791	--	1,441	4,699	726	--	151	89,204	6,774
Reformulated	--	--	11,045	--	--	2,658	--	--	--	13,703	--
Conventional	--	150	72,746	--	1,441	2,041	726	--	151	75,501	6,774
Finished Aviation Gasoline	--	--	30	5	25	--	-21	--	--	81	163
Kerosene-Type Jet Fuel	--	--	9,153	--	928	--	336	--	47	9,698	7,270
Kerosene	--	--	32	--	--	--	-1	--	--	33	189
Distillate Fuel Oil	--	--	37,279	324	1,159	852	-356	--	293	39,676	32,623
15 ppm sulfur and under	--	--	37,218	229	1,104	852	-354	--	88	39,669	31,781
Greater than 15 ppm to 500 ppm sulfur	--	--	116	--	55	--	-1	--	--	172	458
Greater than 500 ppm sulfur	--	--	-55	95	--	--	-1	--	206	-165	384
Residual Fuel Oil <sup>6</sup>	--	--	1,537	87	-1,103	--	-106	--	130	497	1,279
Less than 0.31 percent sulfur	--	--	35	--	-130	--	-1	--	NA	NA	60
0.31 to 1.00 percent sulfur	--	--	222	13	--	--	-12	--	NA	NA	257
Greater than 1.00 percent sulfur	--	--	1,280	74	-973	--	-93	--	NA	NA	962
Petrochemical Feedstocks	--	--	1,044	141	-140	--	49	--	--	996	583
Naphtha for Petro. Feed. Use	--	--	669	90	-140	--	31	--	--	588	465
Other Oils for Petro. Feed. Use	--	--	375	51	--	--	18	--	--	408	118
Special Naphthas	--	--	-36	4	26	--	-9	--	--	3	118
Lubricants	--	--	242	128	140	--	52	--	226	232	600
Waxes	--	--	38	--	--	--	4	--	47	-13	50
Petroleum Coke	--	--	6,453	31	-1,164	--	330	--	291	4,699	1,942
Marketable	--	--	4,909	31	-1,164	--	330	--	291	3,155	1,942
Catalyst	--	--	1,544	--	--	--	--	--	--	1,544	--
Asphalt and Road Oil	--	--	5,694	420	-174	--	-1,268	--	141	7,067	11,359
Still Gas	--	--	4,732	--	--	--	--	--	--	4,732	--
Miscellaneous Products	--	--	514	--	3	--	-24	--	1	540	93
<b>Total</b>	<b>99,550</b>	<b>32,222</b>	<b>156,842</b>	<b>100,959</b>	<b>-45,180</b>	<b>-10,108</b>	<b>-2,599</b>	<b>149,380</b>	<b>16,659</b>	<b>170,845</b>	<b>321,905</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	Ending Stocks
<b>Crude Oil</b>	<b>460,331</b>	--	--	<b>608,822</b>	<b>-191,957</b>	<b>-46,856</b>	<b>2,227</b>	<b>794,369</b>	<b>33,744</b>	<b>0</b>	<b>134,329</b>
<b>Hydrocarbon Gas Liquids</b>	<b>213,999</b>	<b>-3,979</b>	<b>29,136</b>	<b>19,689</b>	<b>-65,529</b>	--	<b>8,314</b>	<b>17,836</b>	<b>50,187</b>	<b>116,979</b>	<b>58,345</b>
Natural Gas Liquids	213,999	-3,979	19,867	17,721	-60,884	--	8,144	17,836	50,187	110,557	57,746
Ethane	73,270	--	--	--	--	--	-409	--	18,810	30,496	4,782
Propane	76,790	--	15,807	12,606	-43,733	--	2,138	--	680	58,652	22,797
Normal Butane	26,535	--	21	3,937	-17,114	--	7,264	3,150	1,320	6,066	18,653
Isobutane	12,863	--	-363	1,145	-1,284	--	523	9,767	5	2,066	2,475
Natural Gasoline	24,541	-3,979	--	33	25,620	--	-1,372	4,919	29,391	13,277	9,039
Refinery Olefins	--	--	9,269	1,968	--	--	170	--	--	6,422	599
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	8,574	1,558	--	--	140	--	--	5,347	495
Normal Butylene	--	--	650	380	--	--	100	--	--	930	104
Isobutylene	--	--	45	--	--	--	-70	--	--	145	0
<b>Other Liquids</b>	--	<b>219,799</b>	--	<b>3,528</b>	<b>-80,002</b>	<b>-12,509</b>	<b>-5,763</b>	<b>129,899</b>	<b>16,969</b>	<b>-10,288</b>	<b>66,188</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	219,809	--	653	-141,721	-10,497	-481	63,852	4,873	0	9,141
Hydrogen	--	--	--	--	--	7,944	--	7,944	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	10	-1	--	11	0	3
Renewable Fuels (including Fuel Ethanol)	--	219,809	--	653	-141,721	-18,655	-483	55,707	4,862	0	9,114
Fuel Ethanol	--	203,398	--	--	-136,363	-11,771	-827	52,244	3,847	0	7,852
Renewable Fuels Except Fuel Ethanol	--	16,411	--	653	-5,358	-6,884	344	3,463	1,015	0	1,262
Other Hydrocarbons	--	--	--	--	--	204	3	201	--	0	24
Unfinished Oils	--	--	--	664	-3,535	--	859	-4,321	10,879	-10,288	13,603
Motor Gasoline Blend.Comp. (MGBC)	--	-10	--	2,211	65,254	-2,011	-6,141	70,368	1,217	0	43,444
Reformulated	--	-3	--	--	24,059	-10,871	221	12,964	--	0	6,410
Conventional	--	-7	--	2,211	41,195	8,860	-6,362	57,404	1,217	0	37,034
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	<b>846</b>	<b>959,487</b>	<b>6,442</b>	<b>13,357</b>	<b>20,811</b>	<b>-1,008</b>	--	<b>8,074</b>	<b>993,876</b>	<b>63,043</b>
Finished Motor Gasoline	--	846	545,933	1	3,544	13,783	270	--	988	562,849	6,774
Reformulated	--	--	75,614	--	--	13,077	--	--	--	88,691	--
Conventional	--	846	470,319	1	3,544	706	270	--	988	474,158	6,774
Finished Aviation Gasoline	--	--	265	23	76	--	-3	--	--	367	163
Kerosene-Type Jet Fuel	--	--	56,840	--	6,734	--	-267	--	356	63,485	7,270
Kerosene	--	--	719	--	20	--	-92	--	4	827	189
Distillate Fuel Oil	--	--	239,482	1,975	16,827	7,028	-1,030	--	1,519	264,823	32,623
15 ppm sulfur and under	--	--	239,478	1,424	16,061	7,028	-1,153	--	91	265,053	31,781
Greater than 15 ppm to 500 ppm sulfur	--	--	525	--	766	--	76	--	600	615	458
Greater than 500 ppm sulfur	--	--	-521	551	--	--	47	--	828	-845	384
Residual Fuel Oil <sup>6</sup>	--	--	9,056	508	-4,806	--	-1	--	1,073	3,686	1,279
Less than 0.31 percent sulfur	--	--	433	--	-393	--	3	--	NA	NA	60
0.31 to 1.00 percent sulfur	--	--	1,266	156	-115	--	-17	--	NA	NA	257
Greater than 1.00 percent sulfur	--	--	7,357	352	-4,298	--	13	--	NA	NA	962
Petrochemical Feedstocks	--	--	6,538	1,109	-543	--	18	--	--	7,086	583
Naphtha for Petro. Feed. Use	--	--	4,271	581	-469	--	38	--	--	4,345	465
Other Oils for Petro. Feed. Use	--	--	2,267	528	-74	--	-20	--	--	2,741	118
Special Naphthas	--	--	-59	40	152	--	-65	--	--	198	118
Lubricants	--	--	1,282	822	961	--	-227	--	1,320	1,972	600
Waxes	--	--	198	34	--	--	22	--	239	-29	50
Petroleum Coke	--	--	38,030	197	-5,468	--	604	--	1,802	30,353	1,942
Marketable	--	--	28,202	197	-5,468	--	604	--	1,802	20,525	1,942
Catalyst	--	--	9,828	--	--	--	--	--	--	9,828	--
Asphalt and Road Oil	--	--	28,351	1,733	-4,136	--	-213	--	754	25,407	11,359
Still Gas	--	--	29,681	--	--	--	--	--	--	29,681	--
Miscellaneous Products	--	--	3,171	--	-4	--	-24	--	18	3,173	93
<b>Total</b>	<b>674,330</b>	<b>216,666</b>	<b>988,623</b>	<b>638,481</b>	<b>-324,131</b>	<b>-38,554</b>	<b>3,770</b>	<b>942,104</b>	<b>108,975</b>	<b>1,100,566</b>	<b>321,905</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>2,212</b>	--	--	<b>3,121</b>	<b>-949</b>	<b>-367</b>	<b>-241</b>	<b>4,083</b>	<b>175</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>999</b>	<b>-19</b>	<b>204</b>	<b>87</b>	<b>-282</b>	--	<b>189</b>	<b>77</b>	<b>242</b>	<b>482</b>
Natural Gas Liquids	999	-19	156	78	-253	--	186	77	242	456
Ethane	293	--	--	--	--	--	4	--	105	102
Propane	378	--	79	46	-193	--	90	--	4	214
Normal Butane	133	--	4,387	24	-87	--	113	2	2	36
Isobutane	62	--	-5	8	-9	--	-8	51	0	13
Natural Gasoline	133	-19	--	0	118	--	-14	24	132	91
Refinery Olefins	--	--	49	9	--	--	3	--	--	26
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	42	8	-29	--	4	--	--	17
Normal Butylene	--	--	7	1	--	--	0	--	--	9
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	--	<b>1,054</b>	--	<b>12</b>	<b>-264</b>	<b>-138</b>	<b>-22</b>	<b>659</b>	<b>77</b>	<b>-49</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,054	--	4	-614	-105	-13	320	32	0
Hydrogen	--	--	--	--	--	39	--	39	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,054	--	4	-614	-145	-13	280	32	0
Fuel Ethanol	--	972	--	--	-591	-118	-22	259	24	0
Renewable Fuels Except Fuel Ethanol	--	82	--	4	-23	-27	9	20	7	0
Other Hydrocarbons	--	--	--	--	--	1	-1	1	--	0
Unfinished Oils	--	--	--	4	-21	--	-6	-2	40	-49
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	4	372	-33	-3	340	5	0
Reformulated	--	--	--	--	140	-72	4	65	--	0
Conventional	--	0	--	4	232	39	-7	276	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	<b>5</b>	<b>4,855</b>	<b>37</b>	<b>37</b>	<b>179</b>	<b>-9</b>	--	<b>43</b>	<b>5,079</b>
Finished Motor Gasoline	--	5	2,703	--	46	152	23	--	5	2,878
Reformulated	--	--	356	--	--	86	--	--	--	442
Conventional	--	5	2,347	--	46	66	23	--	5	2,436
Finished Aviation Gasoline	--	--	1	0	1	--	-1	--	--	3
Kerosene-Type Jet Fuel	--	--	295	--	30	--	11	--	2	313
Kerosene	--	--	1	--	--	--	0	--	--	1
Distillate Fuel Oil	--	--	1,203	10	37	27	-11	--	9	1,280
15 ppm sulfur and under	--	--	1,201	7	36	27	-11	--	3	1,280
Greater than 15 ppm to 500 ppm sulfur	--	--	4	--	2	--	0	--	--	6
Greater than 500 ppm sulfur	--	--	-2	3	--	--	0	--	7	-5
Residual Fuel Oil <sup>6</sup>	--	--	50	3	-36	--	-3	--	4	16
Less than 0.31 percent sulfur	--	--	1	--	-4	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	0	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	41	2	-31	--	-3	--	NA	NA
Petrochemical Feedstocks	--	--	34	5	-5	--	2	--	--	32
Naphtha for Petro. Feed. Use	--	--	22	3	-5	--	1	--	--	19
Other Oils for Petro. Feed. Use	--	--	12	2	--	--	1	--	--	13
Special Naphthas	--	--	-1	0	1	--	0	--	--	0
Lubricants	--	--	8	4	5	--	2	--	7	7
Waxes	--	--	1	--	--	--	0	--	2	0
Petroleum Coke	--	--	208	1	-38	--	11	--	9	152
Marketable	--	--	158	1	-38	--	11	--	9	102
Catalyst	--	--	50	--	--	--	--	--	--	50
Asphalt and Road Oil	--	--	184	14	-6	--	-41	--	5	228
Still Gas	--	--	153	--	--	--	--	--	--	153
Miscellaneous Products	--	--	17	--	0	--	-1	--	0	17
<b>Total</b>	<b>3,211</b>	<b>1,039</b>	<b>5,059</b>	<b>3,257</b>	<b>-1,457</b>	<b>-326</b>	<b>-84</b>	<b>4,819</b>	<b>537</b>	<b>5,511</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>2,171</b>	--	--	<b>2,872</b>	<b>-905</b>	<b>-221</b>	<b>11</b>	<b>3,747</b>	<b>159</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>1,009</b>	<b>-19</b>	<b>137</b>	<b>93</b>	<b>-309</b>	--	<b>39</b>	<b>84</b>	<b>237</b>	<b>552</b>
Natural Gas Liquids	1,009	-19	94	84	-287	--	38	84	237	521
Ethane	346	--	--	--	--	--	-2	--	89	144
Propane	362	--	75	59	-206	--	10	--	3	277
Normal Butane	125	--	21	19	-81	--	34	15	6	29
Isobutane	61	--	-2	5	-6	--	2	46	0	10
Natural Gasoline	116	-19	--	0	121	--	-6	23	139	63
Refinery Olefins	--	--	44	9	--	--	1	--	--	30
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	40	7	-22	--	1	--	--	25
Normal Butylene	--	--	3	2	--	--	0	--	--	4
Isobutylene	--	--	0	--	--	--	0	--	--	1
<b>Other Liquids</b>	--	<b>1,037</b>	--	<b>17</b>	<b>-377</b>	<b>-59</b>	<b>-27</b>	<b>613</b>	<b>80</b>	<b>-49</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,037	--	3	-668	-50	-2	301	23	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,037	--	3	-668	-88	-2	263	23	0
Fuel Ethanol	--	959	--	--	-643	-56	-4	246	18	0
Renewable Fuels Except Fuel Ethanol	--	77	--	3	-25	-32	2	16	5	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	3	-17	--	4	-20	51	-49
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	10	308	-9	-29	332	6	0
Reformulated	--	0	--	--	113	-51	1	61	--	0
Conventional	--	0	--	10	194	42	-30	271	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	<b>4</b>	<b>4,526</b>	<b>30</b>	<b>63</b>	<b>98</b>	<b>-5</b>	--	<b>38</b>	<b>4,688</b>
Finished Motor Gasoline	--	4	2,575	0	17	65	1	--	5	2,655
Reformulated	--	--	357	--	--	62	--	--	--	418
Conventional	--	4	2,218	0	17	3	1	--	5	2,237
Finished Aviation Gasoline	--	--	1	0	0	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	268	--	32	--	-1	--	2	299
Kerosene	--	--	3	--	0	--	0	--	0	4
Distillate Fuel Oil	--	--	1,130	9	79	33	-5	--	7	1,249
15 ppm sulfur and under	--	--	1,130	7	76	33	-5	--	0	1,250
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	4	--	0	--	3	3
Greater than 500 ppm sulfur	--	--	-2	3	--	--	0	--	4	-4
Residual Fuel Oil <sup>6</sup>	--	--	43	2	-23	--	0	--	5	17
Less than 0.31 percent sulfur	--	--	2	--	-2	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	6	1	-1	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	35	2	-20	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	31	5	-3	--	0	--	--	33
Naphtha for Petro. Feed. Use	--	--	20	3	-2	--	0	--	--	20
Other Oils for Petro. Feed. Use	--	--	11	2	0	--	0	--	--	13
Special Naphthas	--	--	0	0	1	--	0	--	--	1
Lubricants	--	--	6	4	5	--	-1	--	6	9
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	179	1	-26	--	3	--	9	143
Marketable	--	--	133	1	-26	--	3	--	9	97
Catalyst	--	--	46	--	--	--	--	--	--	46
Asphalt and Road Oil	--	--	134	8	-20	--	-1	--	4	120
Still Gas	--	--	140	--	--	--	--	--	--	140
Miscellaneous Products	--	--	15	--	0	--	0	--	0	15
<b>Total</b>	<b>3,181</b>	<b>1,022</b>	<b>4,663</b>	<b>3,012</b>	<b>-1,529</b>	<b>-182</b>	<b>18</b>	<b>4,444</b>	<b>514</b>	<b>5,191</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil<sup>6</sup></b>	<b>237,785</b>	--	--	<b>50,581</b>	<b>37,601</b>	<b>21,457</b>	<b>-7,538</b>	<b>279,199</b>	<b>75,762</b>	<b>0</b>	<b>872,204</b>
<b>Hydrocarbon Gas Liquids</b>	<b>82,257</b>	<b>-17</b>	<b>15,922</b>	<b>130</b>	<b>21,181</b>	--	<b>4,227</b>	<b>8,726</b>	<b>39,450</b>	<b>67,070</b>	<b>164,660</b>
Natural Gas Liquids	82,257	-17	8,896	--	20,589	--	3,997	8,726	39,450	59,552	157,688
Ethane	33,153	--	173	--	--	--	-3,375	--	3,089	42,891	50,980
Propane	25,699	--	4,790	--	8,024	--	2,066	--	30,002	6,445	46,442
Normal Butane	5,346	--	4,387	--	3,844	--	4,345	913	6,089	2,230	41,820
Isobutane	8,603	--	-454	--	1,132	--	-40	3,739	229	5,353	7,849
Natural Gasoline	9,456	-17	--	--	-1,690	--	1,001	4,074	41	2,633	10,597
Refinery Olefins	--	--	7,026	130	--	--	230	--	--	7,518	6,972
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	7,069	--	--	--	-779	--	--	8,440	5,333
Normal Butylene	--	--	-11	130	--	--	1,009	--	--	-890	1,639
Isobutylene	--	--	-32	--	--	--	0	--	--	-32	0
<b>Other Liquids</b>	--	<b>4,303</b>	--	<b>21,530</b>	<b>-65,167</b>	<b>7,842</b>	<b>4,567</b>	<b>-47,997</b>	<b>12,210</b>	<b>-273</b>	<b>138,169</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	4,303	--	183	4,384	4,653	519	8,898	4,106	0	8,151
Hydrogen	--	--	--	--	--	3,891	--	3,891	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,831	--	129	--	-677	6	--	2,277	0	1,729
Renewable Fuels (including Fuel Ethanol)	--	1,472	--	54	4,384	1,439	513	5,007	1,829	0	6,422
Fuel Ethanol	--	729	--	--	4,373	1,880	432	4,726	1,824	0	4,520
Renewable Fuels Except Fuel Ethanol	--	743	--	54	11	-441	81	281	5	0	1,902
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	18,259	675	--	995	13,191	5,004	-256	52,340
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	3,088	-70,226	3,189	3,050	-70,100	3,101	0	77,648
Reformulated	--	--	--	256	-16,172	3,097	731	-13,570	20	0	12,588
Conventional	--	--	--	2,832	-54,054	91	2,319	-56,530	3,080	0	65,060
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	3	14	--	-17	30
<b>Finished Petroleum Products</b>	--	--	<b>242,627</b>	<b>4,671</b>	<b>-46,048</b>	<b>-4,644</b>	<b>4,499</b>	--	<b>80,812</b>	<b>111,295</b>	<b>103,803</b>
Finished Motor Gasoline	--	--	68,922	--	-3,053	-5,068	-694	--	19,328	42,166	7,112
Reformulated	--	--	14,541	--	--	-3,714	--	--	--	10,827	--
Conventional	--	--	54,381	--	-3,053	-1,355	-694	--	19,328	31,339	7,112
Finished Aviation Gasoline	--	--	334	--	-143	--	-103	--	--	294	387
Kerosene-Type Jet Fuel	--	--	30,693	--	-17,733	--	473	--	5,029	7,458	14,647
Kerosene	--	--	119	--	-32	--	61	--	--	26	414
Distillate Fuel Oil	--	--	92,092	706	-25,386	425	4,969	--	37,612	25,255	41,575
15 ppm sulfur and under	--	--	84,424	--	-24,038	425	4,002	--	31,458	25,351	35,062
Greater than 15 ppm to 500 ppm sulfur	--	--	2,513	--	-55	--	-348	--	2,596	210	1,273
Greater than 500 ppm sulfur	--	--	5,155	706	-1,293	--	1,315	--	3,559	-306	5,240
Residual Fuel Oil <sup>7</sup>	--	--	5,768	1,338	1,103	--	410	--	3,483	4,316	16,471
Less than 0.31 percent sulfur	--	--	1,454	590	130	--	-425	--	NA	NA	1,461
0.31 to 1.00 percent sulfur	--	--	643	--	--	--	314	--	NA	NA	2,533
Greater than 1.00 percent sulfur	--	--	3,671	748	973	--	521	--	NA	NA	12,477
Petrochemical Feedstocks	--	--	8,502	299	-165	--	203	--	--	8,433	2,651
Naphtha for Petro. Feed. Use	--	--	5,490	291	140	--	107	--	--	5,814	1,880
Other Oils for Petro. Feed. Use	--	--	3,012	8	-305	--	96	--	--	2,619	771
Special Naphthas	--	--	1,009	832	-26	--	-86	--	--	1,901	896
Lubricants	--	--	4,454	1,396	-534	--	434	--	2,598	2,284	8,390
Waxes	--	--	118	6	--	--	19	--	17	88	296
Petroleum Coke	--	--	14,832	94	788	--	-929	--	12,388	4,255	5,100
Marketable	--	--	11,282	94	788	--	-929	--	12,388	705	5,100
Catalyst	--	--	3,550	--	--	--	--	--	--	3,550	--
Asphalt and Road Oil	--	--	2,720	--	-864	--	-287	--	320	1,824	5,459
Still Gas	--	--	11,353	--	--	--	--	--	--	11,353	--
Miscellaneous Products	--	--	1,711	--	-3	--	29	--	37	1,642	405
<b>Total</b>	<b>320,042</b>	<b>4,286</b>	<b>258,549</b>	<b>76,912</b>	<b>-52,433</b>	<b>24,655</b>	<b>5,755</b>	<b>239,928</b>	<b>208,235</b>	<b>178,093</b>	<b>1,278,836</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	Ending Stocks
<b>Crude Oil<sup>6</sup></b>	<b>1,660,633</b>	--	--	<b>390,792</b>	<b>246,225</b>	<b>131,357</b>	<b>-8,286</b>	<b>1,876,774</b>	<b>560,519</b>	<b>0</b>	<b>872,204</b>
<b>Hydrocarbon Gas Liquids</b>	<b>568,509</b>	<b>-87</b>	<b>95,412</b>	<b>706</b>	<b>154,717</b>	--	<b>42,230</b>	<b>62,185</b>	<b>264,392</b>	<b>450,450</b>	<b>164,660</b>
Natural Gas Liquids	568,509	-87	49,223	--	152,286	--	42,610	62,185	264,392	400,744	157,688
Ethane	245,585	--	1,012	--	--	--	7,839	--	31,789	292,401	50,980
Propane	173,608	--	33,003	--	49,010	--	12,239	--	190,246	53,136	46,442
Normal Butane	32,811	--	17,937	--	23,886	--	19,495	14,806	41,067	-734	41,820
Isobutane	59,355	--	-2,729	--	7,301	--	2,176	26,138	1,062	34,551	7,849
Natural Gasoline	57,150	-87	--	--	-13,343	--	861	21,241	229	21,389	10,597
Refinery Olefins	--	--	46,189	706	--	--	-380	--	--	49,706	6,972
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	47,621	--	--	--	-1,124	--	--	51,176	5,333
Normal Butylene	--	--	-1,182	706	--	--	744	--	--	-1,220	1,639
Isobutylene	--	--	-250	--	--	--	0	--	--	-250	0
<b>Other Liquids</b>	--	<b>25,961</b>	--	<b>115,391</b>	<b>-406,629</b>	<b>32,675</b>	<b>6,005</b>	<b>-333,877</b>	<b>85,128</b>	<b>10,142</b>	<b>138,169</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	25,961	--	888	38,211	23,883	-59	60,354	28,648	0	8,151
Hydrogen	--	--	--	--	--	26,444	--	26,444	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	17,325	--	694	--	-4,248	182	30	13,559	0	1,729
Renewable Fuels (including Fuel Ethanol)	--	8,636	--	167	38,211	1,714	-241	33,880	15,089	0	6,422
Fuel Ethanol	--	3,940	--	--	37,914	4,559	-33	31,620	14,826	0	4,520
Renewable Fuels Except Fuel Ethanol	--	4,696	--	167	297	-2,845	-208	2,260	262	0	1,902
Other Hydrocarbons	--	--	--	27	--	-27	--	--	--	0	--
Unfinished Oils	--	--	--	97,752	3,396	--	7,380	46,977	36,602	10,189	52,340
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	16,751	-448,236	8,792	-1,315	-441,256	19,878	0	77,648
Reformulated	--	--	--	581	-95,439	34,414	272	-60,820	104	0	12,588
Conventional	--	--	--	16,170	-352,797	-25,622	-1,587	-380,436	19,774	0	65,060
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-1	48	--	-47	30
<b>Finished Petroleum Products</b>	--	--	<b>1,636,205</b>	<b>25,660</b>	<b>-357,933</b>	<b>-8,801</b>	<b>-8,494</b>	--	<b>574,431</b>	<b>729,194</b>	<b>103,803</b>
Finished Motor Gasoline	--	--	490,209	512	-40,984	-13,351	-4,539	--	153,939	286,986	7,112
Reformulated	--	--	99,151	--	--	-37,907	0	--	--	61,244	--
Conventional	--	--	391,058	512	-40,984	24,556	-4,539	--	153,939	225,742	7,112
Finished Aviation Gasoline	--	--	2,042	59	-676	--	-48	--	--	1,473	387
Kerosene-Type Jet Fuel	--	--	197,241	30	-119,755	--	-790	--	34,313	43,993	14,647
Kerosene	--	--	426	--	-585	--	227	--	269	-655	414
Distillate Fuel Oil	--	--	620,075	1,813	-199,522	4,550	-1,613	--	240,935	187,594	41,575
15 ppm sulfur and under	--	--	558,833	516	-189,081	4,550	-902	--	196,866	178,854	35,062
Greater than 15 ppm to 500 ppm sulfur	--	--	22,546	--	-854	--	-409	--	19,947	2,154	1,273
Greater than 500 ppm sulfur	--	--	38,696	1,297	-9,587	--	-302	--	24,123	6,585	5,240
Residual Fuel Oil <sup>7</sup>	--	--	36,031	9,795	5,153	--	220	--	37,068	13,691	16,471
Less than 0.31 percent sulfur	--	--	8,418	2,181	393	--	561	--	NA	NA	1,461
0.31 to 1.00 percent sulfur	--	--	3,617	578	115	--	-6	--	NA	NA	2,533
Greater than 1.00 percent sulfur	--	--	23,996	7,036	4,645	--	-335	--	NA	NA	12,477
Petrochemical Feedstocks	--	--	56,031	2,183	275	--	-103	--	--	58,592	2,651
Naphtha for Petro. Feed. Use	--	--	37,008	2,036	469	--	-2	--	--	39,515	1,880
Other Oils for Petro. Feed. Use	--	--	19,023	147	-194	--	-101	--	--	19,077	771
Special Naphthas	--	--	6,228	3,257	-152	--	-282	--	--	9,615	896
Lubricants	--	--	27,075	6,896	-3,858	--	-2,168	--	18,758	13,523	8,390
Waxes	--	--	717	171	--	--	24	--	170	694	296
Petroleum Coke	--	--	97,903	944	4,408	--	204	--	85,097	17,954	5,100
Marketable	--	--	73,843	944	4,408	--	204	--	85,097	-6,106	5,100
Catalyst	--	--	24,060	--	--	--	--	--	--	24,060	--
Asphalt and Road Oil	--	--	17,633	--	-2,472	--	363	--	3,631	11,167	5,459
Still Gas	--	--	73,456	--	--	--	--	--	--	73,456	--
Miscellaneous Products	--	--	11,138	--	235	--	11	--	251	11,111	405
<b>Total</b>	<b>2,229,142</b>	<b>25,874</b>	<b>1,731,617</b>	<b>532,549</b>	<b>-363,620</b>	<b>155,231</b>	<b>31,455</b>	<b>1,605,082</b>	<b>1,484,470</b>	<b>1,189,786</b>	<b>1,278,836</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biogiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil<sup>6</sup></b>	<b>7,670</b>	--	--	<b>1,632</b>	<b>1,213</b>	<b>692</b>	<b>-243</b>	<b>9,006</b>	<b>2,444</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>2,653</b>	<b>-1</b>	<b>514</b>	<b>4</b>	<b>683</b>	--	<b>136</b>	<b>281</b>	<b>1,273</b>	<b>2,164</b>
Natural Gas Liquids	2,653	-1	287	--	664	--	129	281	1,273	1,921
Ethane	1,069	--	6	--	--	--	-109	--	100	1,384
Propane	829	--	155	--	259	--	67	--	968	208
Normal Butane	172	--	142	--	124	--	140	29	196	72
Isobutane	278	--	-15	--	37	--	-1	121	7	173
Natural Gasoline	305	-1	--	--	-55	--	32	131	1	85
Refinery Olefins	--	--	227	4	--	--	7	--	--	243
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	228	--	19	--	-25	--	--	272
Normal Butylene	--	--	0	4	--	--	33	--	--	-29
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
<b>Other Liquids</b>	--	<b>139</b>	--	<b>695</b>	<b>-2,102</b>	<b>253</b>	<b>147</b>	<b>-1,548</b>	<b>394</b>	<b>-9</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	139	--	6	141	150	17	287	132	0
Hydrogen	--	--	--	--	--	126	--	126	--	0
Oxygenates (excluding Fuel Ethanol)	--	91	--	4	--	-22	0	--	73	0
Renewable Fuels (including Fuel Ethanol)	--	47	--	2	141	46	17	162	59	0
Fuel Ethanol	--	24	--	--	141	61	14	152	59	0
Renewable Fuels Except Fuel Ethanol	--	24	--	2	0	-14	3	9	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	589	22	--	32	426	161	-8
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	100	-2,265	103	98	-2,261	100	0
Reformulated	--	--	--	8	-522	100	24	-438	1	0
Conventional	--	--	--	91	-1,744	3	75	-1,824	99	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	-1
<b>Finished Petroleum Products</b>	--	--	<b>7,827</b>	<b>151</b>	<b>-1,485</b>	<b>-150</b>	<b>145</b>	--	<b>2,607</b>	<b>3,590</b>
Finished Motor Gasoline	--	--	2,223	--	-98	-163	-22	--	623	1,360
Reformulated	--	--	469	--	--	-120	--	--	--	349
Conventional	--	--	1,754	--	-98	-44	-22	--	623	1,011
Finished Aviation Gasoline	--	--	11	--	-5	--	-3	--	--	9
Kerosene-Type Jet Fuel	--	--	990	--	-572	--	15	--	162	241
Kerosene	--	--	4	--	-1	--	2	--	--	1
Distillate Fuel Oil	--	--	2,971	23	-819	14	160	--	1,213	815
15 ppm sulfur and under	--	--	2,723	--	-775	14	129	--	1,015	818
Greater than 15 ppm to 500 ppm sulfur	--	--	81	--	-2	--	-11	--	84	7
Greater than 500 ppm sulfur	--	--	166	23	-42	--	42	--	115	-10
Residual Fuel Oil <sup>7</sup>	--	--	186	43	36	--	13	--	112	139
Less than 0.31 percent sulfur	--	--	47	19	4	--	-14	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	--	--	--	10	--	NA	NA
Greater than 1.00 percent sulfur	--	--	118	24	31	--	17	--	NA	NA
Petrochemical Feedstocks	--	--	274	10	-5	--	7	--	--	272
Naphtha for Petro. Feed. Use	--	--	177	9	5	--	3	--	--	188
Other Oils for Petro. Feed. Use	--	--	97	0	-10	--	3	--	--	84
Special Naphthas	--	--	33	27	-1	--	-3	--	--	61
Lubricants	--	--	144	45	-17	--	14	--	84	74
Waxes	--	--	4	0	--	--	1	--	1	3
Petroleum Coke	--	--	478	3	25	--	-30	--	400	137
Marketable	--	--	364	3	25	--	-30	--	400	23
Catalyst	--	--	115	--	--	--	--	--	--	115
Asphalt and Road Oil	--	--	88	--	-28	--	-9	--	10	59
Still Gas	--	--	366	--	--	--	--	--	--	366
Miscellaneous Products	--	--	55	--	0	--	1	--	1	53
<b>Total</b>	<b>10,324</b>	<b>138</b>	<b>8,340</b>	<b>2,481</b>	<b>-1,691</b>	<b>795</b>	<b>186</b>	<b>7,740</b>	<b>6,717</b>	<b>5,745</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil<sup>6</sup></b>	<b>7,833</b>	--	--	<b>1,843</b>	<b>1,161</b>	<b>620</b>	<b>-39</b>	<b>8,853</b>	<b>2,644</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>2,682</b>	<b>0</b>	<b>450</b>	<b>3</b>	<b>730</b>	--	<b>199</b>	<b>293</b>	<b>1,247</b>	<b>2,125</b>
Natural Gas Liquids	2,682	0	232	--	718	--	201	293	1,247	1,890
Ethane	1,158	--	5	--	--	--	37	--	150	1,379
Propane	819	--	156	--	231	--	58	--	897	251
Normal Butane	155	--	282	--	113	--	92	70	194	-3
Isobutane	280	--	-13	--	34	--	10	123	5	163
Natural Gasoline	270	0	--	--	-63	--	4	100	1	101
Refinery Olefins	--	--	218	3	--	--	-2	--	--	234
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	225	--	11	--	-5	--	--	241
Normal Butylene	--	--	-6	3	--	--	4	--	--	-6
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
<b>Other Liquids</b>	--	<b>122</b>	--	<b>544</b>	<b>-1,918</b>	<b>154</b>	<b>28</b>	<b>-1,575</b>	<b>402</b>	<b>48</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	122	--	4	180	113	0	285	135	0
Hydrogen	--	--	--	--	--	125	--	125	--	0
Oxygenates (excluding Fuel Ethanol)	--	82	--	3	--	-20	1	0	64	0
Renewable Fuels (including Fuel Ethanol)	--	41	--	1	180	8	-1	160	71	0
Fuel Ethanol	--	19	--	--	179	22	0	149	70	0
Renewable Fuels Except Fuel Ethanol	--	22	--	1	1	-13	-1	11	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	461	16	--	35	222	173	48
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	79	-2,114	41	-6	-2,081	94	0
Reformulated	--	--	--	3	-450	162	1	-287	0	0
Conventional	--	--	--	76	-1,664	-121	-7	-1,795	93	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
<b>Finished Petroleum Products</b>	--	--	<b>7,718</b>	<b>121</b>	<b>-1,688</b>	<b>-42</b>	<b>-40</b>	--	<b>2,710</b>	<b>3,440</b>
Finished Motor Gasoline	--	--	2,312	2	-193	-63	-21	--	726	1,354
Reformulated	--	--	468	--	--	-179	0	--	--	289
Conventional	--	--	1,845	2	-193	116	-21	--	726	1,065
Finished Aviation Gasoline	--	--	10	0	-3	--	0	--	--	7
Kerosene-Type Jet Fuel	--	--	930	0	-565	--	-4	--	162	208
Kerosene	--	--	2	--	-3	--	1	--	1	-3
Distillate Fuel Oil	--	--	2,925	9	-941	21	-8	--	1,136	885
15 ppm sulfur and under	--	--	2,636	2	-892	21	-4	--	929	844
Greater than 15 ppm to 500 ppm sulfur	--	--	106	--	-4	--	-2	--	94	10
Greater than 500 ppm sulfur	--	--	183	6	-45	--	-1	--	114	31
Residual Fuel Oil <sup>7</sup>	--	--	170	46	24	--	1	--	175	65
Less than 0.31 percent sulfur	--	--	40	10	2	--	3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	17	3	1	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	113	33	22	--	-2	--	NA	NA
Petrochemical Feedstocks	--	--	264	10	1	--	0	--	--	276
Naphtha for Petro. Feed. Use	--	--	175	10	2	--	0	--	--	186
Other Oils for Petro. Feed. Use	--	--	90	1	-1	--	0	--	--	90
Special Naphthas	--	--	29	15	-1	--	-1	--	--	45
Lubricants	--	--	128	33	-18	--	-10	--	88	64
Waxes	--	--	3	1	--	--	0	--	1	3
Petroleum Coke	--	--	462	4	21	--	1	--	401	85
Marketable	--	--	348	4	21	--	1	--	401	-29
Catalyst	--	--	113	--	--	--	--	--	--	113
Asphalt and Road Oil	--	--	83	--	-12	--	2	--	17	53
Still Gas	--	--	346	--	--	--	--	--	--	346
Miscellaneous Products	--	--	53	--	1	--	0	--	1	52
<b>Total</b>	<b>10,515</b>	<b>122</b>	<b>8,168</b>	<b>2,512</b>	<b>-1,715</b>	<b>732</b>	<b>148</b>	<b>7,571</b>	<b>7,002</b>	<b>5,612</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>29,481</b>	<b>--</b>	<b>--</b>	<b>13,543</b>	<b>-20,479</b>	<b>-2,337</b>	<b>-1,080</b>	<b>21,288</b>	<b>--</b>	<b>0</b>	<b>20,653</b>
<b>Hydrocarbon Gas Liquids</b>	<b>12,880</b>	<b>-11</b>	<b>556</b>	<b>252</b>	<b>-10,253</b>	<b>--</b>	<b>487</b>	<b>476</b>	<b>97</b>	<b>2,364</b>	<b>4,430</b>
Natural Gas Liquids	12,880	-11	472	252	-10,253	--	492	476	97	2,275	4,332
Ethane	2,623	--	--	--	--	--	26	--	0	355	525
Propane	4,953	--	305	247	-3,928	--	138	--	--	1,439	1,472
Normal Butane	2,012	--	164	2	-1,544	--	319	107	22	186	1,638
Isobutane	973	--	3	3	-831	--	-20	209	--	-41	285
Natural Gasoline	2,319	-11	--	--	-1,708	--	29	160	75	336	412
Refinery Olefins	--	--	84	--	--	--	-5	--	--	89	98
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	12	--	--	--	0	--	--	12	0
Normal Butylene	--	--	72	--	--	--	-5	--	--	77	98
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
<b>Other Liquids</b>	<b>--</b>	<b>419</b>	<b>--</b>	<b>145</b>	<b>906</b>	<b>-1,011</b>	<b>-376</b>	<b>685</b>	<b>2</b>	<b>148</b>	<b>9,531</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	419	--	28	570	275	-5	1,295	2	0	444
Hydrogen	--	--	--	--	--	202	--	202	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	419	--	28	570	73	-5	1,093	2	0	444
Fuel Ethanol	--	419	--	--	463	136	-6	1,024	--	0	349
Renewable Fuels Except Fuel Ethanol	--	0	--	28	107	-63	1	69	2	0	95
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-323	175	0	148	3,274
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	117	336	-1,286	-48	-785	--	0	5,813
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	336	-1,286	-48	-785	--	0	5,813
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	<b>--</b>	<b>--</b>	<b>22,810</b>	<b>137</b>	<b>-577</b>	<b>1,217</b>	<b>16</b>	<b>--</b>	<b>39</b>	<b>23,532</b>	<b>8,799</b>
Finished Motor Gasoline	--	--	10,849	--	-656	1,150	26	--	1	11,316	1,622
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	10,849	--	-656	1,150	26	--	1	11,316	1,622
Finished Aviation Gasoline	--	--	8	14	--	--	0	--	--	22	9
Kerosene-Type Jet Fuel	--	--	1,181	--	921	--	63	--	--	2,039	710
Kerosene	--	--	--	--	--	--	-1	--	--	1	--
Distillate Fuel Oil	--	--	7,070	113	-63	67	86	--	15	7,087	4,152
15 ppm sulfur and under	--	--	7,023	113	-63	67	67	--	15	7,059	3,931
Greater than 15 ppm to 500 ppm sulfur	--	--	32	--	--	--	3	--	--	29	172
Greater than 500 ppm sulfur	--	--	15	--	--	--	16	--	--	-1	49
Residual Fuel Oil <sup>6</sup>	--	--	382	--	--	--	5	--	10	367	215
Less than 0.31 percent sulfur	--	--	190	--	--	--	3	--	NA	NA	31
0.31 to 1.00 percent sulfur	--	--	26	--	--	--	-2	--	NA	NA	3
Greater than 1.00 percent sulfur	--	--	166	--	--	--	4	--	NA	NA	181
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	8	-8	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	848	--	-174	--	38	--	--	636	149
Marketable	--	--	595	--	-174	--	38	--	--	383	149
Catalyst	--	--	253	--	--	--	--	--	--	253	--
Asphalt and Road Oil	--	--	1,553	9	-606	--	-205	--	6	1,156	1,922
Still Gas	--	--	784	--	--	--	--	--	--	784	--
Miscellaneous Products	--	--	135	1	--	--	4	--	0	132	20
<b>Total</b>	<b>42,361</b>	<b>408</b>	<b>23,366</b>	<b>14,077</b>	<b>-30,404</b>	<b>-2,131</b>	<b>-953</b>	<b>22,449</b>	<b>139</b>	<b>26,043</b>	<b>43,413</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>197,660</b>	--	--	<b>80,347</b>	<b>-131,282</b>	<b>-13,182</b>	<b>-887</b>	<b>134,430</b>	--	<b>0</b>	<b>20,653</b>
<b>Hydrocarbon Gas Liquids</b>	<b>91,403</b>	<b>-72</b>	<b>2,414</b>	<b>2,475</b>	<b>-76,634</b>	--	<b>970</b>	<b>3,962</b>	<b>1,644</b>	<b>13,010</b>	<b>4,430</b>
Natural Gas Liquids	91,403	-72	2,024	2,475	-76,634	--	909	3,962	1,644	12,681	4,332
Ethane	24,665	--	--	--	--	--	60	--	0	1,290	525
Propane	33,467	--	1,745	2,099	-26,460	--	76	--	3	10,772	1,472
Normal Butane	12,946	--	282	273	-10,504	--	695	1,401	37	864	1,638
Isobutane	6,452	--	-3	103	-5,799	--	18	1,433	--	-698	285
Natural Gasoline	13,873	-72	--	--	-10,556	--	60	1,128	1,604	453	412
Refinery Olefins	--	--	390	--	--	--	61	--	--	329	98
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	32	--	--	--	-1	--	--	33	0
Normal Butylene	--	--	379	--	--	--	67	--	--	312	98
Isobutylene	--	--	-21	--	--	--	-5	--	--	-16	0
<b>Other Liquids</b>	--	<b>2,810</b>	--	<b>984</b>	<b>3,564</b>	<b>-6,953</b>	<b>-107</b>	<b>-1,271</b>	<b>23</b>	<b>1,760</b>	<b>9,531</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	2,810	--	112	2,426	2,705	-23	8,073	4	0	444
Hydrogen	--	--	--	--	--	1,413	--	1,413	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	2,810	--	112	2,426	1,292	-23	6,660	4	0	444
Fuel Ethanol	--	2,810	--	--	2,054	1,438	-4	6,306	--	0	349
Renewable Fuels Except Fuel Ethanol	--	0	--	112	372	-146	-19	354	4	0	95
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-223	-1,556	19	1,760	3,274
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	872	1,138	-9,659	139	-7,788	0	0	5,813
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	1,138	-9,659	139	-7,788	0	0	5,813
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>140,108</b>	<b>1,037</b>	<b>-6,298</b>	<b>8,349</b>	<b>-177</b>	--	<b>145</b>	<b>143,228</b>	<b>8,799</b>
Finished Motor Gasoline	--	--	66,134	--	-4,191	8,221	9	--	8	70,146	1,622
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	66,134	--	-4,191	8,221	9	--	8	70,146	1,622
Finished Aviation Gasoline	--	--	34	16	--	--	-1	--	--	51	9
Kerosene-Type Jet Fuel	--	--	7,080	--	5,467	--	-104	--	--	12,651	710
Kerosene	--	--	--	--	--	--	-2	--	--	2	--
Distillate Fuel Oil	--	--	45,448	717	-1,055	129	-292	--	15	45,516	4,152
15 ppm sulfur and under	--	--	45,173	717	-1,055	129	-226	--	15	45,175	3,931
Greater than 15 ppm to 500 ppm sulfur	--	--	313	--	--	--	-29	--	--	342	172
Greater than 500 ppm sulfur	--	--	-38	--	--	--	-37	--	--	-1	49
Residual Fuel Oil <sup>6</sup>	--	--	2,590	97	--	--	-21	--	53	2,655	215
Less than 0.31 percent sulfur	--	--	1,319	--	--	--	6	--	NA	NA	31
0.31 to 1.00 percent sulfur	--	--	162	--	--	--	-5	--	NA	NA	3
Greater than 1.00 percent sulfur	--	--	1,109	97	--	--	-22	--	NA	NA	181
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	1	--	--	--	--	50	-49	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	5,263	--	-2,409	--	-45	--	1	2,899	149
Marketable	--	--	3,687	--	-2,409	--	-45	--	1	1,323	149
Catalyst	--	--	1,576	--	--	--	--	--	--	1,576	--
Asphalt and Road Oil	--	--	8,141	199	-4,110	--	275	--	13	3,942	1,922
Still Gas	--	--	4,718	--	--	--	--	--	--	4,718	--
Miscellaneous Products	--	--	700	7	--	--	4	--	3	700	20
<b>Total</b>	<b>289,063</b>	<b>2,738</b>	<b>142,522</b>	<b>84,843</b>	<b>-210,649</b>	<b>-11,786</b>	<b>-201</b>	<b>137,121</b>	<b>1,812</b>	<b>157,999</b>	<b>43,413</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b> .....	<b>951</b>	<b>--</b>	<b>--</b>	<b>437</b>	<b>-661</b>	<b>-75</b>	<b>-35</b>	<b>687</b>	<b>--</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>415</b>	<b>0</b>	<b>18</b>	<b>8</b>	<b>-331</b>	<b>--</b>	<b>16</b>	<b>15</b>	<b>3</b>	<b>76</b>
Natural Gas Liquids .....	415	0	15	8	-331	--	16	15	3	73
Ethane .....	85	--	--	--	--	--	1	--	0	11
Propane .....	160	--	10	8	-127	--	4	--	--	46
Normal Butane .....	65	--	5	0	-50	--	10	3	1	6
Isobutane .....	31	--	0	0	-27	--	-1	7	--	-1
Natural Gasoline .....	75	0	--	--	-55	--	1	5	2	11
Refinery Olefins .....	--	--	3	--	--	--	0	--	--	3
Ethylene .....	--	--	--	--	--	--	--	--	--	--
Propylene .....	--	--	0	--	--	--	0	--	--	0
Normal Butylene .....	--	--	2	--	--	--	0	--	--	2
Isobutylene .....	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b> .....	<b>--</b>	<b>14</b>	<b>--</b>	<b>5</b>	<b>29</b>	<b>-33</b>	<b>-12</b>	<b>22</b>	<b>0</b>	<b>5</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	--	14	--	1	18	9	0	42	0	0
Hydrogen .....	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol) .....	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol) .....	--	14	--	1	18	2	0	35	0	0
Fuel Ethanol .....	--	14	--	--	15	4	0	33	--	0
Renewable Fuels Except Fuel Ethanol .....	--	0	--	1	3	-2	0	2	0	0
Other Hydrocarbons .....	--	--	--	--	--	--	--	--	--	--
Unfinished Oils .....	--	--	--	--	--	--	-10	6	0	5
Motor Gasoline Blend.Comp. (MGBC) .....	--	--	--	4	11	-41	-2	-25	--	0
Reformulated .....	--	--	--	--	--	--	--	--	--	--
Conventional .....	--	--	--	--	11	-41	-2	-25	--	0
Aviation Gasoline Blend. Comp. ....	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b> .....	<b>--</b>	<b>--</b>	<b>736</b>	<b>4</b>	<b>-19</b>	<b>39</b>	<b>1</b>	<b>--</b>	<b>1</b>	<b>759</b>
Finished Motor Gasoline .....	--	--	350	--	-21	37	1	--	0	365
Reformulated .....	--	--	--	--	--	--	--	--	--	--
Conventional .....	--	--	350	--	-21	37	1	--	0	365
Finished Aviation Gasoline .....	--	--	0	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel .....	--	--	38	--	30	--	2	--	--	66
Kerosene .....	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil .....	--	--	228	4	-2	2	3	--	0	229
15 ppm sulfur and under .....	--	--	227	4	-2	2	2	--	0	228
Greater than 15 ppm to 500 ppm sulfur .....	--	--	1	--	--	--	0	--	--	1
Greater than 500 ppm sulfur .....	--	--	0	--	--	--	1	--	--	0
Residual Fuel Oil <sup>6</sup> .....	--	--	12	--	--	--	0	--	0	12
Less than 0.31 percent sulfur .....	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur .....	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur .....	--	--	5	--	--	--	0	--	NA	NA
Petrochemical Feedstocks .....	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use .....	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use .....	--	--	--	--	--	--	--	--	--	--
Special Naphthas .....	--	--	--	--	--	--	--	--	--	--
Lubricants .....	--	--	--	--	--	--	--	--	0	0
Waxes .....	--	--	--	--	--	--	--	--	0	0
Petroleum Coke .....	--	--	27	--	-6	--	1	--	--	21
Marketable .....	--	--	19	--	-6	--	1	--	--	12
Catalyst .....	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil .....	--	--	50	0	-20	--	-7	--	0	37
Still Gas .....	--	--	25	--	--	--	--	--	--	25
Miscellaneous Products .....	--	--	4	0	--	--	0	--	0	4
<b>Total</b> .....	<b>1,366</b>	<b>13</b>	<b>754</b>	<b>454</b>	<b>-981</b>	<b>-69</b>	<b>-31</b>	<b>724</b>	<b>4</b>	<b>840</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>932</b>	<b>--</b>	<b>--</b>	<b>379</b>	<b>-619</b>	<b>-62</b>	<b>-4</b>	<b>634</b>	<b>--</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>431</b>	<b>0</b>	<b>11</b>	<b>12</b>	<b>-361</b>	<b>--</b>	<b>5</b>	<b>19</b>	<b>8</b>	<b>61</b>
Natural Gas Liquids	431	0	10	12	-361	--	4	19	8	60
Ethane	116	--	--	--	--	--	0	--	0	6
Propane	158	--	8	10	-125	--	0	--	0	51
Normal Butane	61	--	1	1	-50	--	3	7	0	4
Isobutane	30	--	0	0	-27	--	0	7	--	-3
Natural Gasoline	65	0	--	--	-50	--	0	5	8	2
Refinery Olefins	--	--	2	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	2	--	--	--	0	--	--	1
Isobutylene	--	--	0	--	--	--	0	--	--	0
<b>Other Liquids</b>	<b>--</b>	<b>13</b>	<b>--</b>	<b>5</b>	<b>17</b>	<b>-33</b>	<b>-1</b>	<b>-6</b>	<b>0</b>	<b>8</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	1	11	13	0	38	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	13	--	1	11	6	0	31	0	0
Fuel Ethanol	--	13	--	--	10	7	0	30	--	0
Renewable Fuels Except Fuel Ethanol	--	0	--	1	2	-1	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-1	-7	0	8
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	4	5	-46	1	-37	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	5	-46	1	-37	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	<b>--</b>	<b>--</b>	<b>661</b>	<b>5</b>	<b>-30</b>	<b>39</b>	<b>-1</b>	<b>--</b>	<b>1</b>	<b>676</b>
Finished Motor Gasoline	--	--	312	--	-20	39	0	--	0	331
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	312	--	-20	39	0	--	0	331
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	33	--	26	--	0	--	--	60
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	214	3	-5	1	-1	--	0	215
15 ppm sulfur and under	--	--	213	3	-5	1	-1	--	0	213
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	--	2
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil <sup>6</sup>	--	--	12	0	--	--	0	--	0	13
Less than 0.31 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	0	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	0	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	25	--	-11	--	0	--	0	14
Marketable	--	--	17	--	-11	--	0	--	0	6
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	38	1	-19	--	1	--	0	19
Still Gas	--	--	22	--	--	--	--	--	--	22
Miscellaneous Products	--	--	3	0	--	--	0	--	0	3
<b>Total</b>	<b>1,364</b>	<b>13</b>	<b>672</b>	<b>400</b>	<b>-994</b>	<b>-56</b>	<b>-1</b>	<b>647</b>	<b>9</b>	<b>745</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>28,015</b>	--	--	<b>37,558</b>	<b>7,218</b>	<b>4,327</b>	<b>-1,680</b>	<b>77,848</b>	<b>950</b>	<b>0</b>	<b>49,031</b>
<b>Hydrocarbon Gas Liquids</b>	<b>1,476</b>	<b>-11</b>	<b>2,243</b>	<b>1,558</b>	<b>678</b>	--	<b>1,022</b>	<b>1,983</b>	<b>1,878</b>	<b>1,061</b>	<b>4,527</b>
Natural Gas Liquids	1,476	-11	2,177	1,558	678	--	1,037	1,983	1,878	980	4,488
Ethane	2	--	--	--	--	--	--	--	0	2	--
Propane	291	--	1,069	1,055	219	--	525	--	1,109	1,000	1,653
Normal Butane	77	--	977	478	297	--	416	542	764	107	2,202
Isobutane	457	--	131	25	162	--	87	883	0	-195	584
Natural Gasoline	649	-11	--	--	--	--	9	558	4	67	49
Refinery Olefins	--	--	66	--	--	--	-15	--	--	81	39
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	149	--	--	--	3	--	--	146	15
Normal Butylene	--	--	-83	--	--	--	-18	--	--	-65	24
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
<b>Other Liquids</b>	--	<b>817</b>	--	<b>5,311</b>	<b>9,185</b>	<b>237</b>	<b>181</b>	<b>14,280</b>	<b>1,114</b>	<b>-25</b>	<b>55,182</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	817	--	1,167	4,450	1,189	344	6,925	355	0	4,943
Hydrogen	--	--	--	--	--	1,292	--	1,292	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	817	--	1,167	4,450	-103	344	5,633	354	0	4,943
Fuel Ethanol	--	512	--	544	4,038	407	345	4,957	199	0	2,996
Renewable Fuels Except Fuel Ethanol	--	305	--	623	412	-510	-1	676	155	0	1,947
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	3,558	--	--	-790	3,724	649	-25	21,130
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	586	4,735	-952	627	3,631	111	0	29,109
Reformulated	--	--	--	--	2,260	623	1,025	1,857	1	0	15,102
Conventional	--	--	--	586	2,475	-1,575	-398	1,774	110	0	14,007
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>97,023</b>	<b>6,207</b>	<b>1,788</b>	<b>956</b>	<b>1,663</b>	--	<b>9,867</b>	<b>94,443</b>	<b>37,194</b>
Finished Motor Gasoline	--	--	49,440	710	342	545	572	--	1,452	49,013	2,647
Reformulated	--	--	34,431	--	--	-788	1	--	--	33,642	18
Conventional	--	--	15,009	710	342	1,333	571	--	1,452	15,371	2,629
Finished Aviation Gasoline	--	--	100	2	--	--	1	--	--	101	213
Kerosene-Type Jet Fuel	--	--	15,128	4,718	209	--	285	--	902	18,868	10,055
Kerosene	--	--	5	--	--	--	-3	--	--	8	20
Distillate Fuel Oil	--	--	18,585	425	866	410	1,018	--	3,262	16,006	13,902
15 ppm sulfur and under	--	--	18,080	424	866	410	1,131	--	2,267	16,383	13,004
Greater than 15 ppm to 500 ppm sulfur	--	--	308	--	--	--	-24	--	590	-258	226
Greater than 500 ppm sulfur	--	--	197	1	--	--	-89	--	405	-118	672
Residual Fuel Oil <sup>6</sup>	--	--	3,167	134	--	--	-54	--	737	2,618	5,236
Less than 0.31 percent sulfur	--	--	3	--	--	--	416	--	NA	NA	618
0.31 to 1.00 percent sulfur	--	--	225	134	--	--	-113	--	NA	NA	433
Greater than 1.00 percent sulfur	--	--	2,939	--	--	--	-359	--	NA	NA	4,177
Petrochemical Feedstocks	--	--	1	22	--	--	0	--	--	23	4
Naphtha for Petro. Feed. Use	--	--	1	22	--	--	0	--	--	23	4
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	36	--	--	--	24	--	--	12	53
Lubricants	--	--	526	29	-96	--	16	--	230	213	734
Waxes	--	--	--	62	--	--	--	--	4	58	--
Petroleum Coke	--	--	4,970	24	0	--	15	--	3,228	1,750	1,680
Marketable	--	--	3,857	24	0	--	15	--	3,228	637	1,680
Catalyst	--	--	1,113	--	--	--	--	--	--	1,113	--
Asphalt and Road Oil	--	--	947	81	467	--	-214	--	51	1,659	2,575
Still Gas	--	--	3,704	--	--	--	--	--	--	3,704	--
Miscellaneous Products	--	--	414	--	--	--	3	--	0	411	75
<b>Total</b>	<b>29,491</b>	<b>806</b>	<b>99,266</b>	<b>50,634</b>	<b>18,869</b>	<b>5,520</b>	<b>1,186</b>	<b>94,111</b>	<b>13,809</b>	<b>95,480</b>	<b>145,934</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biogiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>198,464</b>	--	--	<b>261,276</b>	<b>39,021</b>	<b>14,594</b>	<b>3,885</b>	<b>505,619</b>	<b>3,851</b>	<b>0</b>	<b>49,031</b>
<b>Hydrocarbon Gas Liquids</b>	<b>12,418</b>	<b>-77</b>	<b>11,510</b>	<b>11,524</b>	<b>5,609</b>	--	<b>968</b>	<b>16,759</b>	<b>10,170</b>	<b>13,087</b>	<b>4,527</b>
Natural Gas Liquids	12,418	-77	11,164	11,524	5,609	--	979	16,759	10,170	12,730	4,488
Ethane	13	--	--	--	--	--	--	--	3	10	--
Propane	2,068	--	7,010	7,129	2,117	--	240	--	6,255	11,829	1,653
Normal Butane	1,884	--	3,291	3,952	2,507	--	544	6,227	3,781	1,082	2,202
Isobutane	2,729	--	863	443	985	--	180	5,414	5	-579	584
Natural Gasoline	5,724	-77	--	--	--	--	15	5,118	126	388	49
Refinery Olefins	--	--	346	--	--	--	-11	--	--	357	39
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	974	--	--	--	3	--	--	971	15
Normal Butylene	--	--	-628	--	--	--	-14	--	--	-614	24
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
<b>Other Liquids</b>	--	<b>5,460</b>	--	<b>34,094</b>	<b>65,766</b>	<b>-5,291</b>	<b>3,464</b>	<b>92,234</b>	<b>3,902</b>	<b>429</b>	<b>55,182</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	5,460	--	5,540	32,810	3,894	-19	45,824	1,900	0	4,943
Hydrogen	--	--	--	--	--	8,347	--	8,347	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	4	--	--	4	0	--
Renewable Fuels (including Fuel Ethanol)	--	5,460	--	5,540	32,810	-4,456	-19	37,477	1,896	0	4,943
Fuel Ethanol	--	3,599	--	1,682	30,022	-893	-176	33,203	1,382	0	2,996
Renewable Fuels Except Fuel Ethanol	--	1,861	--	3,858	2,789	-3,563	157	4,274	514	0	1,947
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	17,189	--	--	1,680	14,002	1,078	429	21,130
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	11,365	32,956	-9,185	1,803	32,408	925	0	29,109
Reformulated	--	--	--	2,255	16,098	5,182	2,338	21,188	9	0	15,102
Conventional	--	--	--	9,110	16,858	-14,367	-535	11,220	916	0	14,007
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>640,991</b>	<b>35,544</b>	<b>14,536</b>	<b>10,938</b>	<b>1,303</b>	--	<b>72,883</b>	<b>627,824</b>	<b>37,194</b>
Finished Motor Gasoline	--	--	332,151	3,407	3,255	10,078	563	--	7,721	340,607	2,647
Reformulated	--	--	234,593	--	--	-2,808	4	--	--	231,781	18
Conventional	--	--	97,558	3,407	3,255	12,886	559	--	7,721	108,826	2,629
Finished Aviation Gasoline	--	--	287	26	--	--	-2	--	--	315	213
Kerosene-Type Jet Fuel	--	--	95,012	22,883	1,946	--	133	--	5,094	114,614	10,055
Kerosene	--	--	39	--	--	--	-53	--	10	82	20
Distillate Fuel Oil	--	--	122,265	2,709	6,168	860	53	--	26,483	105,466	13,902
15 ppm sulfur and under	--	--	117,022	2,702	6,168	860	141	--	18,168	108,443	13,004
Greater than 15 ppm to 500 ppm sulfur	--	--	2,248	--	--	--	-18	--	3,992	-1,726	226
Greater than 500 ppm sulfur	--	--	2,995	7	--	--	-70	--	4,323	-1,251	672
Residual Fuel Oil <sup>6</sup>	--	--	23,778	4,372	--	--	722	--	6,492	20,936	5,236
Less than 0.31 percent sulfur	--	--	44	338	--	--	356	--	NA	NA	618
0.31 to 1.00 percent sulfur	--	--	2,569	1,499	--	--	-34	--	NA	NA	433
Greater than 1.00 percent sulfur	--	--	21,165	2,535	--	--	398	--	NA	NA	4,177
Petrochemical Feedstocks	--	--	16	235	--	--	-1	--	--	252	4
Naphtha for Petro. Feed. Use	--	--	16	235	--	--	-1	--	--	252	4
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	217	--	--	--	-4	--	--	221	53
Lubricants	--	--	3,420	525	-233	--	-535	--	1,987	2,260	734
Waxes	--	--	--	371	--	--	--	--	36	335	--
Petroleum Coke	--	--	31,267	166	-192	--	209	--	24,618	6,414	1,680
Marketable	--	--	24,277	166	-192	--	209	--	24,618	-576	1,680
Catalyst	--	--	6,990	--	--	--	--	--	--	6,990	--
Asphalt and Road Oil	--	--	5,308	850	3,591	--	242	--	440	9,067	2,575
Still Gas	--	--	24,462	--	--	--	--	--	--	24,462	--
Miscellaneous Products	--	--	2,769	--	--	--	-24	--	2	2,791	75
<b>Total</b>	<b>210,882</b>	<b>5,383</b>	<b>652,501</b>	<b>342,438</b>	<b>124,932</b>	<b>20,242</b>	<b>9,620</b>	<b>614,612</b>	<b>90,806</b>	<b>641,340</b>	<b>145,934</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biogiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2019**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b> .....	<b>904</b>	<b>--</b>	<b>--</b>	<b>1,212</b>	<b>233</b>	<b>140</b>	<b>-54</b>	<b>2,511</b>	<b>31</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>48</b>	<b>0</b>	<b>72</b>	<b>50</b>	<b>22</b>	<b>--</b>	<b>33</b>	<b>64</b>	<b>61</b>	<b>34</b>
Natural Gas Liquids .....	48	0	70	50	22	--	33	64	61	32
Ethane .....	0	--	--	--	--	--	--	--	0	0
Propane .....	9	--	34	34	7	--	17	--	36	32
Normal Butane .....	2	--	32	15	10	--	13	17	25	3
Isobutane .....	15	--	4	1	5	--	3	28	0	-6
Natural Gasoline .....	21	0	--	--	--	--	0	18	0	2
Refinery Olefins .....	--	--	2	--	--	--	0	--	--	3
Ethylene .....	--	--	--	--	--	--	--	--	--	--
Propylene .....	--	--	5	--	--	--	0	--	--	5
Normal Butylene .....	--	--	-3	--	--	--	-1	--	--	-2
Isobutylene .....	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b> .....	<b>--</b>	<b>26</b>	<b>--</b>	<b>171</b>	<b>296</b>	<b>8</b>	<b>6</b>	<b>461</b>	<b>36</b>	<b>-1</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	--	26	--	38	144	38	11	223	11	0
Hydrogen .....	--	--	--	--	--	42	--	42	--	0
Oxygenates (excluding Fuel Ethanol) .....	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol) .....	--	26	--	38	144	-3	11	182	11	0
Fuel Ethanol .....	--	17	--	18	130	13	11	160	6	0
Renewable Fuels Except Fuel Ethanol .....	--	10	--	20	13	-16	0	22	5	0
Other Hydrocarbons .....	--	--	--	--	--	--	--	--	--	--
Unfinished Oils .....	--	--	--	115	--	--	-25	120	21	-1
Motor Gasoline Blend.Comp. (MGBC) .....	--	--	--	19	153	-31	20	117	4	0
Reformulated .....	--	--	--	--	73	20	33	60	0	0
Conventional .....	--	--	--	19	80	-51	-13	57	4	0
Aviation Gasoline Blend. Comp. ....	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b> .....	<b>--</b>	<b>--</b>	<b>3,130</b>	<b>200</b>	<b>58</b>	<b>31</b>	<b>54</b>	<b>--</b>	<b>318</b>	<b>3,047</b>
Finished Motor Gasoline .....	--	--	1,595	23	11	18	18	--	47	1,581
Reformulated .....	--	--	1,111	--	--	-25	0	--	--	1,085
Conventional .....	--	--	484	23	11	43	18	--	47	496
Finished Aviation Gasoline .....	--	--	3	0	--	--	0	--	--	3
Kerosene-Type Jet Fuel .....	--	--	488	152	7	--	9	--	29	609
Kerosene .....	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil .....	--	--	600	14	28	13	33	--	105	516
15 ppm sulfur and under .....	--	--	583	14	28	13	36	--	73	528
Greater than 15 ppm to 500 ppm sulfur .....	--	--	10	--	--	--	-1	--	19	-8
Greater than 500 ppm sulfur .....	--	--	6	0	--	--	-3	--	13	-4
Residual Fuel Oil <sup>6</sup> .....	--	--	102	4	--	--	-2	--	24	84
Less than 0.31 percent sulfur .....	--	--	0	--	--	--	13	--	NA	NA
0.31 to 1.00 percent sulfur .....	--	--	7	4	--	--	-4	--	NA	NA
Greater than 1.00 percent sulfur .....	--	--	95	--	--	--	-12	--	NA	NA
Petrochemical Feedstocks .....	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use .....	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use .....	--	--	--	--	--	--	--	--	--	--
Special Naphthas .....	--	--	1	--	--	--	1	--	--	0
Lubricants .....	--	--	17	1	-3	--	1	--	7	7
Waxes .....	--	--	--	2	--	--	--	--	0	2
Petroleum Coke .....	--	--	160	1	0	--	0	--	104	56
Marketable .....	--	--	124	1	0	--	0	--	104	21
Catalyst .....	--	--	36	--	--	--	--	--	--	36
Asphalt and Road Oil .....	--	--	31	3	15	--	-7	--	2	54
Still Gas .....	--	--	119	--	--	--	--	--	--	119
Miscellaneous Products .....	--	--	13	--	--	--	0	--	0	13
<b>Total</b> .....	<b>951</b>	<b>26</b>	<b>3,202</b>	<b>1,633</b>	<b>609</b>	<b>178</b>	<b>38</b>	<b>3,036</b>	<b>445</b>	<b>3,080</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2019**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>936</b>	<b>--</b>	<b>--</b>	<b>1,232</b>	<b>184</b>	<b>69</b>	<b>18</b>	<b>2,385</b>	<b>18</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>59</b>	<b>0</b>	<b>54</b>	<b>54</b>	<b>26</b>	<b>--</b>	<b>5</b>	<b>79</b>	<b>48</b>	<b>62</b>
Natural Gas Liquids	59	0	53	54	26	--	5	79	48	60
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	33	34	10	--	1	--	30	56
Normal Butane	9	--	16	19	12	--	3	29	18	5
Isobutane	13	--	4	2	5	--	1	26	0	-3
Natural Gasoline	27	0	--	--	--	--	0	24	1	2
Refinery Olefins	--	--	2	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	5	--	--	--	0	--	--	5
Normal Butylene	--	--	-3	--	--	--	0	--	--	-3
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	<b>--</b>	<b>26</b>	<b>--</b>	<b>161</b>	<b>310</b>	<b>-25</b>	<b>16</b>	<b>435</b>	<b>18</b>	<b>2</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	26	--	26	155	18	0	216	9	0
Hydrogen	--	--	--	--	--	39	--	39	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	26	--	26	155	-21	0	177	9	0
Fuel Ethanol	--	17	--	8	142	-4	-1	157	7	0
Renewable Fuels Except Fuel Ethanol	--	9	--	18	13	-17	1	20	2	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	81	--	--	8	66	5	2
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	54	155	-43	9	153	4	0
Reformulated	--	--	--	11	76	24	11	100	0	0
Conventional	--	--	--	43	80	-68	-3	53	4	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	<b>--</b>	<b>--</b>	<b>3,024</b>	<b>168</b>	<b>69</b>	<b>52</b>	<b>6</b>	<b>--</b>	<b>344</b>	<b>2,961</b>
Finished Motor Gasoline	--	--	1,567	16	15	48	3	--	36	1,607
Reformulated	--	--	1,107	--	--	-13	0	--	--	1,093
Conventional	--	--	460	16	15	61	3	--	36	513
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	448	108	9	--	1	--	24	541
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	577	13	29	4	0	--	125	497
15 ppm sulfur and under	--	--	552	13	29	4	1	--	86	512
Greater than 15 ppm to 500 ppm sulfur	--	--	11	--	--	--	0	--	19	-8
Greater than 500 ppm sulfur	--	--	14	0	--	--	0	--	20	-6
Residual Fuel Oil <sup>6</sup>	--	--	112	21	--	--	3	--	31	99
Less than 0.31 percent sulfur	--	--	0	2	--	--	2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	12	7	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	100	12	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	16	2	-1	--	-3	--	9	11
Waxes	--	--	--	2	--	--	--	--	0	2
Petroleum Coke	--	--	147	1	-1	--	1	--	116	30
Marketable	--	--	115	1	-1	--	1	--	116	-3
Catalyst	--	--	33	--	--	--	--	--	--	33
Asphalt and Road Oil	--	--	25	4	17	--	1	--	2	43
Still Gas	--	--	115	--	--	--	--	--	--	115
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
<b>Total</b>	<b>995</b>	<b>25</b>	<b>3,078</b>	<b>1,615</b>	<b>589</b>	<b>95</b>	<b>45</b>	<b>2,899</b>	<b>428</b>	<b>3,025</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, July 2019**  
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Supply</b>							
Field Production .....	2,124	68,587	237,785	29,481	28,015	365,992	11,806
Alaskan .....	--	--	--	--	--	13,903	448
Lower 48 States .....	--	--	--	--	--	352,088	11,358
Imports (PAD District of Entry) .....	16,560	96,746	50,581	13,543	37,558	214,988	6,935
Commercial .....	16,560	96,746	50,581	13,543	37,558	214,988	6,935
Strategic Petroleum Reserve (SPR) .....	--	--	--	--	--	--	--
Net Receipts .....	5,076	-29,416	37,601	-20,479	7,218	--	--
Adjustments <sup>1</sup> .....	976	-11,372	21,457	-2,337	4,327	13,052	421
<b>Disposition</b>							
Stock Change <sup>2</sup> .....	-4,135	-7,478	-7,538	-1,080	-1,680	-21,911	-707
Commercial .....	--	--	-7,538	--	--	-21,911	-707
SPR .....	--	--	0	--	--	0	0
Refinery Inputs .....	27,510	126,585	279,199	21,288	77,848	532,430	17,175
Exports .....	1,362	5,439	75,762	--	950	83,512	2,694
<b>Ending Stocks</b>							
Total .....	10,651	134,329	872,204	20,653	49,031	1,086,868	--
Commercial .....	10,651	134,329	227,386	20,653	49,031	442,050	--
Refinery .....	8,306	13,281	47,994	2,217	22,077	93,875	--
Tank Farms and Pipelines .....	2,345	121,048	179,392	18,436	23,780	345,001	--
Cushing, Oklahoma .....	--	47,707	--	--	--	47,707	--
Lease .....	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water .....	--	--	--	--	3,174	3,174	--
SPR .....	--	--	644,818	--	--	644,818	--
<b>SPR Stocks</b>							
Percent of Total Crude Oil Stocks (Percent) .....	--	--	--	--	--	59.3	--
Percent of Total Petroleum Stocks (Percent) .....	--	--	--	--	--	32.9	--
Days of Total Petroleum Net Imports (Days) .....	--	--	--	--	--	440	--
<b>SPR Receipts Detail</b>							
Receipts .....	--	--	--	--	--	--	--
Domestic .....	--	--	--	--	--	--	--
Imports .....	--	--	--	--	--	--	--
Imported by SPR .....	--	--	--	--	--	--	--
Imported for SPR by Others .....	--	--	--	--	--	--	--
<b>Imports</b>							
PAD District of Entry .....	16,560	96,746	50,581	13,543	37,558	214,988	6,935
PAD District of Processing .....	18,598	84,444	62,495	11,131	38,320	214,988	6,935

-- = Not Applicable.

-- = No Data Reported.

<sup>1</sup> Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 26. Production of Crude Oil by PAD District and State, July 2019**  
(Thousand Barrels)

PAD District and State	July 2019		January-July 2019	
	Total	Daily Average	Total	Daily Average
<b>PAD District 1</b> .....	<b>2,124</b>	<b>69</b>	<b>13,473</b>	<b>64</b>
Florida .....	141	5	987	5
New York .....	19	1	128	1
Pennsylvania .....	465	15	3,565	17
Virginia .....	0	0	2	0
West Virginia .....	1,499	48	8,790	41
<b>PAD District 2</b> .....	<b>68,587</b>	<b>2,212</b>	<b>460,331</b>	<b>2,171</b>
Illinois .....	713	23	4,702	22
Indiana .....	136	4	887	4
Kansas .....	2,810	91	19,540	92
Kentucky .....	141	5	1,335	6
Michigan .....	451	15	2,982	14
Missouri .....	8	0	47	0
Nebraska .....	171	6	1,161	5
North Dakota .....	43,833	1,414	290,646	1,371
Ohio .....	2,625	85	15,007	71
Oklahoma .....	17,588	567	123,221	581
South Dakota .....	96	3	686	3
Tennessee .....	14	0	118	1
<b>PAD District 3</b> .....	<b>237,785</b>	<b>7,670</b>	<b>1,660,633</b>	<b>7,833</b>
Alabama .....	389	13	2,882	14
Arkansas .....	402	13	2,736	13
Louisiana .....	3,363	108	25,276	119
Mississippi .....	1,443	47	9,968	47
New Mexico .....	27,537	888	184,399	870
Texas .....	155,657	5,021	1,043,963	4,924
Federal Offshore PAD District 3 .....	48,993	1,580	391,409	1,846
<b>PAD District 4</b> .....	<b>29,481</b>	<b>951</b>	<b>197,660</b>	<b>932</b>
Colorado .....	15,716	507	104,931	495
Idaho .....	2	0	16	0
Montana .....	1,839	59	13,441	63
Utah .....	3,132	101	21,942	104
Wyoming .....	8,792	284	57,329	270
<b>PAD District 5</b> .....	<b>28,015</b>	<b>904</b>	<b>198,464</b>	<b>936</b>
Alaska .....	13,903	448	100,467	474
South Alaska .....	444	14	3,099	15
North Slope .....	13,459	434	97,369	459
Arizona .....	0	0	3	0
California .....	13,708	442	95,437	450
Nevada .....	22	1	148	1
Federal Offshore PAD District 5 .....	381	12	2,408	11
<b>U.S. Total</b> .....	<b>365,992</b>	<b>11,806</b>	<b>2,530,561</b>	<b>11,937</b>

– = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

**Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, July 2019**  
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Hydrocarbon Gas Liquids</b> .....	<b>14</b>	<b>17,459</b>	<b>17,473</b>	<b>4,736</b>	<b>9,369</b>	<b>16,858</b>	<b>30,963</b>
Natural Gas Liquids .....	14	17,459	17,473	4,736	9,369	16,858	30,963
Ethane .....	—	6,783	6,783	754	1,936	6,379	9,069
Propane .....	5	6,018	6,023	2,460	3,736	5,509	11,705
Normal Butane .....	9	2,041	2,050	515	1,669	1,947	4,131
Isobutane .....	—	833	833	555	449	927	1,931
Natural Gasoline .....	—	1,784	1,784	452	1,579	2,096	4,127

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Hydrocarbon Gas Liquids</b> .....	<b>64,452</b>	<b>4,996</b>	<b>4,672</b>	<b>629</b>	<b>7,508</b>	<b>82,257</b>	<b>12,880</b>	<b>1,476</b>	<b>145,049</b>
Natural Gas Liquids .....	64,452	4,996	4,672	629	7,508	82,257	12,880	1,476	145,049
Ethane .....	26,470	1,908	1,693	113	2,969	33,153	2,623	2	51,630
Propane .....	19,911	1,625	1,599	179	2,385	25,699	4,953	291	48,671
Normal Butane .....	6,859	2,841	549	81	698	5,346	2,012	77	13,616
Isobutane .....	3,844	3,779	324	68	588	8,603	973	457	12,797
Natural Gasoline .....	7,368	525	507	188	868	9,456	2,319	649	18,335

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Hydrocarbon Gas Liquids</b> .....	<b>6</b>	<b>286</b>	<b>292</b>	<b>745</b>	<b>128</b>	<b>551</b>	<b>1,424</b>
Natural Gas Liquids .....	6	286	292	745	128	551	1,424
Ethane .....	—	—	—	33	2	129	164
Propane .....	3	121	124	423	56	171	650
Normal Butane .....	3	68	71	89	23	96	208
Isobutane .....	—	19	19	136	5	77	218
Natural Gasoline .....	—	78	78	64	42	78	184

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Hydrocarbon Gas Liquids</b> .....	<b>155</b>	<b>592</b>	<b>2,324</b>	<b>22</b>	<b>—</b>	<b>3,093</b>	<b>182</b>	<b>360</b>	<b>5,351</b>
Natural Gas Liquids .....	155	592	2,324	22	—	3,093	182	360	5,351
Ethane .....	34	194	—	—	—	228	5	—	397
Propane .....	34	250	39	15	—	338	75	49	1,236
Normal Butane .....	18	99	1,508	6	—	1,631	39	227	2,176
Isobutane .....	40	12	43	—	—	95	15	42	389
Natural Gasoline .....	29	37	734	1	—	801	48	42	1,153

— = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."



**Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2019**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Crude Oil</b> .....	<b>24,354</b>	<b>3,156</b>	<b>27,510</b>	<b>82,069</b>	<b>16,406</b>	<b>28,110</b>	<b>126,585</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>327</b>	<b>—</b>	<b>327</b>	<b>1,452</b>	<b>49</b>	<b>871</b>	<b>2,372</b>
Natural Gas Liquids .....	327	—	327	1,452	49	871	2,372
Normal Butane .....	22	—	22	17	5	49	71
Isobutane .....	269	—	269	1,100	44	422	1,566
Natural Gasoline .....	36	—	36	335	—	400	735
<b>Other Liquids</b> .....	<b>85,971</b>	<b>6,944</b>	<b>92,915</b>	<b>12,209</b>	<b>4,851</b>	<b>3,363</b>	<b>20,423</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	10,192	885	11,077	6,178	1,761	1,991	9,930
Hydrogen .....	100	10	110	748	268	203	1,219
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	10,092	875	10,967	5,385	1,493	1,788	8,666
Fuel Ethanol .....	9,902	800	10,702	5,108	1,227	1,709	8,044
Renewable Diesel Fuel <sup>2</sup> .....	190	75	265	277	266	79	622
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	45	—	—	45
Unfinished Oils (net) .....	1,351	-23	1,328	-4	-255	204	-55
Naphthas and Lighter .....	385	21	406	179	-182	206	203
Kerosene and Light Gas Oils .....	383	—	383	-110	-71	45	-136
Heavy Gas Oils .....	433	-40	393	102	-2	7	107
Residuum .....	150	-4	146	-175	—	-54	-229
Motor Gasoline Blend.Comp. (MGBC)(net) .....	74,428	6,082	80,510	6,035	3,345	1,168	10,548
Reformulated - RBOB .....	17,996	121	18,117	-503	1,464	1,040	2,001
Conventional .....	56,432	5,961	62,393	6,538	1,881	128	8,547
CBOB .....	41,699	5,942	47,641	6,758	1,942	264	8,964
GTAB .....	6,984	—	6,984	—	—	—	—
Other .....	7,749	19	7,768	-220	-61	-136	-417
Aviation Gasoline Blend. Comp. (net) .....	—	—	—	—	—	—	—
<b>Total Input</b> .....	<b>110,652</b>	<b>10,100</b>	<b>120,752</b>	<b>95,730</b>	<b>21,306</b>	<b>32,344</b>	<b>149,380</b>

See footnotes at end of table.

**Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2019**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Crude Oil</b> .....	<b>21,526</b>	<b>142,894</b>	<b>103,189</b>	<b>7,499</b>	<b>4,091</b>	<b>279,199</b>	<b>21,288</b>	<b>77,848</b>	<b>532,430</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>357</b>	<b>4,661</b>	<b>3,503</b>	<b>38</b>	<b>167</b>	<b>8,726</b>	<b>476</b>	<b>1,983</b>	<b>13,884</b>
Natural Gas Liquids .....	357	4,661	3,503	38	167	8,726	476	1,983	13,884
Normal Butane .....	83	724	105	1	—	913	107	542	1,655
Isobutane .....	198	1,957	1,384	33	167	3,739	209	883	6,666
Natural Gasoline .....	76	1,980	2,014	4	—	4,074	160	558	5,563
<b>Other Liquids</b> .....	<b>9,652</b>	<b>-39,302</b>	<b>-25,882</b>	<b>7,818</b>	<b>-283</b>	<b>-47,997</b>	<b>685</b>	<b>14,280</b>	<b>80,306</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	2,247	3,078	2,163	1,176	234	8,898	1,295	6,925	38,125
Hydrogen .....	5	2,178	1,603	64	41	3,891	202	1,292	6,714
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	2,242	900	560	1,112	193	5,007	1,093	5,633	31,366
Fuel Ethanol .....	2,122	849	516	1,063	176	4,726	1,024	4,957	29,453
Renewable Diesel Fuel <sup>2</sup> .....	120	51	44	49	17	281	69	671	1,908
Other Renewable Fuels .....	—	—	—	—	—	—	—	5	5
Other Hydrocarbons .....	—	—	—	—	—	—	—	—	45
Unfinished Oils (net) .....	86	137	13,244	-66	-210	13,191	175	3,724	18,363
Naphthas and Lighter .....	135	-4,456	796	27	-12	-3,510	178	75	-2,648
Kerosene and Light Gas Oils .....	-79	-1,449	966	23	-84	-623	-308	-192	-876
Heavy Gas Oils .....	49	4,472	9,727	5	-114	14,139	311	3,152	18,102
Residuum .....	-19	1,570	1,755	-121	—	3,185	-6	689	3,785
Motor Gasoline Blend.Comp. (MGBC)(net) .....	7,311	-42,517	-41,295	6,708	-307	-70,100	-785	3,631	23,804
Reformulated - RBOB .....	5,792	-11,346	-7,383	—	-633	-13,570	—	1,857	8,405
Conventional .....	1,519	-31,171	-33,912	6,708	326	-56,530	-785	1,774	15,399
CBOB .....	1,540	-32,272	-33,791	6,743	352	-57,428	-926	1,419	-330
GTAB .....	—	—	—	—	—	—	—	—	6,984
Other .....	-21	1,101	-121	-35	-26	898	141	355	8,745
Aviation Gasoline Blend. Comp. (net) .....	8	—	6	—	—	14	—	—	14
<b>Total Input</b> .....	<b>31,535</b>	<b>108,253</b>	<b>80,810</b>	<b>15,355</b>	<b>3,975</b>	<b>239,928</b>	<b>22,449</b>	<b>94,111</b>	<b>626,620</b>

— = No Data Reported.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, July 2019**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	1,267	85	1,352	5,033	640	666	6,339
Natural Gas Liquids .....	945	85	1,030	3,884	481	465	4,830
Ethane .....	—	—	—	—	—	—	—
Propane .....	430	32	462	1,664	275	499	2,438
Normal Butane .....	497	63	560	2,283	207	66	2,556
Isobutane .....	18	-10	8	-63	-1	-100	-164
Natural Gasoline .....	—	—	—	—	—	—	—
Refinery Olefins .....	322	—	322	1,149	159	201	1,509
Ethylene .....	13	—	13	—	—	—	—
Propylene .....	354	—	354	935	159	201	1,295
Normal Butylene .....	-78	—	-78	214	—	—	214
Isobutylene .....	33	—	33	—	—	—	—
Finished Motor Gasoline .....	96,391	8,046	104,437	53,903	12,233	17,655	83,791
Reformulated .....	41,230	253	41,483	8,257	1,632	1,156	11,045
Reformulated Blended with Fuel Ethanol .....	41,230	253	41,483	8,257	1,632	1,156	11,045
Reformulated Other .....	—	—	—	—	—	—	—
Conventional .....	55,161	7,793	62,954	45,646	10,601	16,499	72,746
Conventional Blended with Fuel Ethanol .....	56,934	7,746	64,680	42,267	10,505	15,341	68,113
Ed55 and Lower .....	56,886	7,746	64,632	42,253	10,474	15,263	67,990
Greater than Ed55 .....	48	—	48	14	31	78	123
Conventional Other .....	-1,773	47	-1,726	3,379	96	1,158	4,633
Finished Aviation Gasoline .....	—	—	—	—	30	—	30
Kerosene-Type Jet Fuel .....	3,437	—	3,437	6,836	1,121	1,196	9,153
Kerosene .....	147	-2	145	21	—	11	32
Distillate Fuel Oil .....	6,635	885	7,520	20,911	5,278	11,090	37,279
15 ppm sulfur and under .....	6,684	777	7,461	20,838	5,262	11,118	37,218
Greater than 15 ppm to 500 ppm sulfur .....	26	84	110	—	—	116	116
Greater than 500 ppm sulfur .....	-75	24	-51	73	16	-144	-55
Residual Fuel Oil .....	1,232	1	1,233	1,183	220	134	1,537
Less than 0.31 percent sulfur .....	34	—	34	34	—	1	35
0.31 to 1.00 percent sulfur .....	856	1	857	130	92	—	222
Greater than 1.00 percent sulfur .....	342	—	342	1,019	128	133	1,280
Petrochemical Feedstocks .....	—	—	—	1,010	—	34	1,044
Naphtha for Petro. Feed. Use .....	—	—	—	669	—	—	669
Other Oils for Petro. Feed. Use .....	—	—	—	341	—	34	375
Special Naphthas .....	—	26	26	-57	—	21	-36
Lubricants .....	186	227	413	—	—	242	242
Waxes .....	—	3	3	—	—	38	38
Petroleum Coke .....	884	21	905	4,242	1,222	989	6,453
Marketable .....	366	—	366	3,096	1,053	760	4,909
Catalyst .....	518	21	539	1,146	169	229	1,544
Asphalt and Road Oil .....	625	704	1,329	4,172	1,227	295	5,694
Still Gas .....	1,070	53	1,123	2,962	641	1,129	4,732
Miscellaneous Products .....	62	23	85	342	115	57	514
<b>Total .....</b>	<b>111,936</b>	<b>10,072</b>	<b>122,008</b>	<b>100,558</b>	<b>22,727</b>	<b>33,557</b>	<b>156,842</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	<b>-1,284</b>	<b>28</b>	<b>-1,256</b>	<b>-4,828</b>	<b>-1,421</b>	<b>-1,213</b>	<b>-7,462</b>

See footnotes at end of table.

**Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, July 2019**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	1,178	8,573	6,047	45	79	15,922	556	2,243	26,412
Natural Gas Liquids .....	746	4,928	3,115	28	79	8,896	472	2,177	17,405
Ethane .....	11	152	10	—	—	173	—	—	173
Propane .....	342	2,288	2,110	8	42	4,790	305	1,069	9,064
Normal Butane .....	415	3,053	868	20	31	4,387	164	977	8,644
Isobutane .....	-22	-565	127	—	6	-454	3	131	-476
Natural Gasoline .....	—	—	—	—	—	—	—	—	—
Refinery Olefins .....	432	3,645	2,932	17	—	7,026	84	66	9,007
Ethylene .....	—	—	—	—	—	—	—	—	13
Propylene .....	428	3,569	3,055	17	—	7,069	12	149	8,879
Normal Butylene .....	4	108	-123	—	—	-11	72	-83	114
Isobutylene .....	—	-32	—	—	—	-32	—	—	1
Finished Motor Gasoline .....	20,910	23,875	12,511	9,737	1,889	68,922	10,849	49,440	317,439
Reformulated .....	7,736	6,805	—	—	—	14,541	—	34,431	101,500
Reformulated Blended with Fuel Ethanol .....	7,736	6,805	—	—	—	14,541	—	34,431	101,500
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	13,174	17,070	12,511	9,737	1,889	54,381	10,849	15,009	215,939
Conventional Blended with Fuel Ethanol .....	13,189	1,698	5,122	10,550	1,774	32,333	10,185	14,877	190,188
Ed55 and Lower .....	13,167	1,698	5,122	10,536	1,774	32,297	10,171	14,854	189,944
Greater than Ed55 .....	22	—	—	14	—	36	14	23	244
Conventional Other .....	-15	15,372	7,389	-813	115	22,048	664	132	25,751
Finished Aviation Gasoline .....	83	62	189	—	—	334	8	100	472
Kerosene-Type Jet Fuel .....	1,608	15,651	13,243	191	0	30,693	1,181	15,128	59,592
Kerosene .....	-3	95	25	2	—	119	—	5	301
Distillate Fuel Oil .....	6,808	44,257	36,731	2,653	1,643	92,092	7,070	18,585	162,546
15 ppm sulfur and under .....	6,808	42,615	30,865	2,493	1,643	84,424	7,023	18,080	154,206
Greater than 15 ppm to 500 ppm sulfur .....	—	306	2,108	99	—	2,513	32	308	3,079
Greater than 500 ppm sulfur .....	—	1,336	3,758	61	—	5,155	15	197	5,261
Residual Fuel Oil .....	334	1,338	3,976	-25	145	5,768	382	3,167	12,087
Less than 0.31 percent sulfur .....	247	34	1,173	—	—	1,454	190	3	1,716
0.31 to 1.00 percent sulfur .....	—	30	638	-25	—	643	26	225	1,973
Greater than 1.00 percent sulfur .....	87	1,274	2,165	—	145	3,671	166	2,939	8,398
Petrochemical Feedstocks .....	141	5,603	2,756	2	—	8,502	—	1	9,547
Naphtha for Petro. Feed. Use .....	127	3,749	1,612	2	—	5,490	—	1	6,160
Other Oils for Petro. Feed. Use .....	14	1,854	1,144	—	—	3,012	—	—	3,387
Special Naphthas .....	69	712	—	228	—	1,009	—	36	1,035
Lubricants .....	21	1,782	1,761	890	—	4,454	—	526	5,635
Waxes .....	—	39	52	27	—	118	—	—	159
Petroleum Coke .....	417	8,684	5,546	151	34	14,832	848	4,970	28,008
Marketable .....	165	6,705	4,272	140	—	11,282	595	3,857	21,009
Catalyst .....	252	1,979	1,274	11	34	3,550	253	1,113	6,999
Asphalt and Road Oil .....	232	540	749	1,154	45	2,720	1,553	947	12,243
Still Gas .....	698	6,039	4,275	230	111	11,353	784	3,704	21,696
Miscellaneous Products .....	106	1,049	522	17	17	1,711	135	414	2,859
<b>Total .....</b>	<b>32,602</b>	<b>118,299</b>	<b>88,383</b>	<b>15,302</b>	<b>3,963</b>	<b>258,549</b>	<b>23,366</b>	<b>99,266</b>	<b>660,031</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	<b>-1,067</b>	<b>-10,046</b>	<b>-7,573</b>	<b>53</b>	<b>12</b>	<b>-18,621</b>	<b>-917</b>	<b>-5,155</b>	<b>-33,411</b>

— = No Data Reported.

<sup>1</sup> Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2019**  
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Crude Oil</b> .....	24,354	3,156	27,510	82,069	16,406	28,110	126,585
<b>Hydrocarbon Gas Liquids</b> .....	273	—	273	1,449	44	805	2,298
Natural Gas Liquids .....	273	—	273	1,449	44	805	2,298
Normal Butane .....	4	—	4	14	—	19	33
Isobutane .....	269	—	269	1,100	44	422	1,566
Natural Gasoline .....	—	—	—	335	—	364	699
<b>Other Liquids</b> .....	-9,723	147	-9,576	-35,033	-4,988	-11,623	-51,644
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	184	162	346	1,045	484	342	1,871
Hydrogen .....	100	10	110	748	268	203	1,219
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	84	152	236	252	216	139	607
Fuel Ethanol .....	84	122	206	160	159	119	438
Renewable Diesel Fuel <sup>2</sup> .....	—	30	30	92	57	20	169
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	45	—	—	45
Unfinished Oils (net) .....	1,351	-23	1,328	49	-255	204	-2
Naphthas and Lighter .....	385	21	406	179	-182	206	203
Kerosene and Light Gas Oils .....	383	—	383	-110	-71	45	-136
Heavy Gas Oils .....	433	-40	393	102	-2	7	107
Residuum .....	150	-4	146	-122	—	-54	-176
Motor Gasoline Blend.Comp. (MGBC)(net) .....	-11,258	8	-11,250	-36,127	-5,217	-12,169	-53,513
Reformulated - RBOB .....	-7,812	—	-7,812	-7,927	—	—	-7,927
Conventional .....	-3,446	8	-3,438	-28,200	-5,217	-12,169	-45,586
CBOB .....	-2,782	-11	-2,793	-27,976	-5,034	-12,029	-45,039
GTAB .....	—	—	—	—	—	—	—
Other .....	-664	19	-645	-224	-183	-140	-547
Aviation Gasoline Blend. Comp. (net) .....	—	—	—	—	—	—	—
<b>Total Input to Refineries</b> .....	14,904	3,303	18,207	48,485	11,462	17,292	77,239
<b>Atmospheric Crude Oil Distillation</b>							
Gross Input (daily average) .....	785	103	888	2,644	536	907	4,088
Operable Capacity (daily average) .....	1,126	98	1,224	2,678	547	917	4,141
Operable Utilization Rate (percent) <sup>3</sup> .....	69.7	105.1	72.6	98.7	98.2	99.0	98.7
<b>Downstream Processing</b>							
<b>Fresh Feed Input (daily average)</b>							
Catalytic Reforming .....	155	17	172	499	81	175	755
Catalytic Cracking .....	288	16	304	825	114	220	1,158
Catalytic Hydrocracking .....	41	—	41	188	63	63	314
Delayed and Fluid Coking .....	50	—	50	344	69	93	506
<b>Crude Oil Qualities</b>							
Sulfur Content, Weighted Average (percent) .....	0.88	1.57	0.97	1.59	1.68	0.66	1.40
API Gravity, Weighted Average (degrees) .....	35.51	32.50	35.13	32.29	29.20	38.97	33.31
<b>Operable Capacity (daily average)</b> .....	1,126	98	1,224	2,678	547	917	4,141
Operating .....	1,126	98	1,224	2,650	509	917	4,076
Idle .....	—	—	—	28	38	—	66
<b>Alaskan Crude Oil Receipts</b> .....	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2019**  
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Crude Oil</b> .....	21,526	142,894	103,189	7,499	4,091	279,199	21,288	77,848	532,430
<b>Hydrocarbon Gas Liquids</b> .....	345	3,742	3,502	37	167	7,793	455	1,975	12,794
Natural Gas Liquids .....	345	3,742	3,502	37	167	7,793	455	1,975	12,794
Normal Butane .....	83	660	104	—	—	847	101	534	1,519
Isobutane .....	198	1,957	1,384	33	167	3,739	207	883	6,664
Natural Gasoline .....	64	1,125	2,014	4	—	3,207	147	558	4,611
<b>Other Liquids</b> .....	-8,694	-50,246	-29,122	-1,498	-1,530	-91,090	-4,679	-32,649	-189,638
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons .....	307	2,244	1,841	125	100	4,617	573	1,705	9,112
Hydrogen .....	5	2,178	1,603	64	41	3,891	202	1,292	6,714
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	302	66	238	61	59	726	371	413	2,353
Fuel Ethanol .....	240	53	194	39	50	576	319	89	1,628
Renewable Diesel Fuel <sup>2</sup> .....	62	13	44	22	9	150	52	324	725
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	—	—	—	—	—	45
Unfinished Oils (net) .....	86	265	13,244	-66	-210	13,319	175	3,724	18,544
Naphthas and Lighter .....	135	-4,456	796	27	-12	-3,510	178	75	-2,648
Kerosene and Light Gas Oils .....	-79	-1,321	966	23	-84	-495	-308	-192	-748
Heavy Gas Oils .....	49	4,472	9,727	5	-114	14,139	311	3,152	18,102
Residuum .....	-19	1,570	1,755	-121	—	3,185	-6	689	3,838
Motor Gasoline Blend.Comp. (MGBBC)(net) .....	-9,095	-52,755	-44,213	-1,557	-1,420	-109,040	-5,427	-38,078	-217,308
Reformulated - RBOB .....	-1,196	-16,122	-7,383	—	-633	-25,334	—	-28,588	-69,661
Conventional .....	-7,899	-36,633	-36,830	-1,557	-787	-83,706	-5,427	-9,490	-147,647
CBOB .....	-7,878	-31,039	-35,518	-1,522	-751	-76,708	-5,567	-9,848	-139,955
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	-21	-5,594	-1,312	-35	-36	-6,998	140	358	-7,692
Aviation Gasoline Blend. Comp. (net) .....	8	—	6	—	—	14	—	—	14
<b>Total Input to Refineries</b> .....	<b>13,177</b>	<b>96,390</b>	<b>77,569</b>	<b>6,038</b>	<b>2,728</b>	<b>195,902</b>	<b>17,064</b>	<b>47,174</b>	<b>355,586</b>
<b>Atmospheric Crude Oil Distillation</b>									
Gross Input (daily average) .....	695	4,792	3,524	217	131	9,359	689	2,674	17,698
Operable Capacity (daily average) .....	745	5,042	3,696	256	136	9,876	687	2,875	18,802
Operable Utilization Rate (percent) <sup>3</sup> .....	93.2	95.0	95.3	84.7	96.7	94.8	100.3	93.0	94.1
<b>Downstream Processing</b>									
<b>Fresh Feed Input (daily average)</b>									
Catalytic Reforming .....	145	698	618	35	27	1,523	114	419	2,984
Catalytic Cracking .....	184	1,297	1,028	14	30	2,553	183	710	4,909
Catalytic Hydrocracking .....	47	500	452	20	16	1,036	28	468	1,887
Delayed and Fluid Coking .....	23	827	510	26	—	1,385	70	459	2,469
<b>Crude Oil Qualities</b>									
Sulfur Content, Weighted Average (percent) .....	0.57	1.44	1.20	1.53	0.92	1.27	1.49	1.49	1.33
API Gravity, Weighted Average (degrees) .....	39.74	33.11	32.01	30.15	35.44	33.22	32.35	28.79	32.62
<b>Operable Capacity (daily average)</b> .....	<b>745</b>	<b>5,042</b>	<b>3,696</b>	<b>256</b>	<b>136</b>	<b>9,876</b>	<b>687</b>	<b>2,875</b>	<b>18,802</b>
Operating .....	745	5,007	3,696	256	136	9,841	677	2,869	18,686
Idle .....	—	35	—	—	—	35	10	7	117
<b>Alaskan Crude Oil Receipts</b> .....	—	—	—	—	—	—	—	14,913	14,913

— = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

<sup>3</sup> Represents gross input divided by operable calendar day capacity.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

**Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, July 2019**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	1,267	85	1,352	5,033	640	666	6,339
Natural Gas Liquids .....	945	85	1,030	3,884	481	465	4,830
Ethane .....	-	-	-	-	-	-	-
Propane .....	430	32	462	1,664	275	499	2,438
Normal Butane .....	497	63	560	2,283	207	66	2,556
Isobutane .....	18	-10	8	-63	-1	-100	-164
Natural Gasoline .....	-	-	-	-	-	-	-
Refinery Olefins .....	322	-	322	1,149	159	201	1,509
Ethylene .....	13	-	13	-	-	-	-
Propylene .....	354	-	354	935	159	201	1,295
Normal Butylene .....	-78	-	-78	214	-	-	214
Isobutylene .....	33	-	33	-	-	-	-
Finished Motor Gasoline .....	831	1,295	2,126	6,790	2,599	2,661	12,050
Reformulated .....	831	-	831	-	-	-	-
Reformulated Blended with Fuel Ethanol .....	831	-	831	-	-	-	-
Reformulated Other .....	-	-	-	-	-	-	-
Conventional .....	-	1,295	1,295	6,790	2,599	2,661	12,050
Conventional Blended with Fuel Ethanol .....	-	1,228	1,228	1,633	1,783	1,248	4,664
Ed55 and Lower .....	-	1,228	1,228	1,633	1,783	1,248	4,664
Greater than Ed55 .....	-	-	-	-	-	-	-
Conventional Other .....	-	67	67	5,157	816	1,413	7,386
Finished Aviation Gasoline .....	-	-	-	-	30	-	30
Kerosene-Type Jet Fuel .....	3,437	-	3,437	6,863	1,122	1,196	9,181
Kerosene .....	147	-	147	21	-	11	32
Distillate Fuel Oil .....	6,442	838	7,280	20,699	5,069	11,035	36,803
15 ppm sulfur and under .....	6,528	730	7,258	20,626	5,053	11,063	36,742
Greater than 15 ppm to 500 ppm sulfur .....	-43	84	41	-	-	-3	-3
Greater than 500 ppm sulfur .....	-43	24	-19	73	16	-25	64
Residual Fuel Oil .....	1,239	1	1,240	1,183	220	134	1,537
Less than 0.31 percent sulfur .....	41	-	41	34	-	1	35
0.31 to 1.00 percent sulfur .....	856	1	857	130	92	-	222
Greater than 1.00 percent sulfur .....	342	-	342	1,019	128	133	1,280
Petrochemical Feedstocks .....	-	-	-	1,010	-	34	1,044
Naphtha for Petro. Feed. Use .....	-	-	-	669	-	-	669
Other Oils for Petro. Feed. Use .....	-	-	-	341	-	34	375
Special Naphthas .....	-	26	26	-57	-	21	-36
Lubricants .....	186	227	413	-	-	242	242
Waxes .....	-	3	3	-	-	38	38
Petroleum Coke .....	884	21	905	4,242	1,222	989	6,453
Marketable .....	366	-	366	3,096	1,053	760	4,909
Catalyst .....	518	21	539	1,146	169	229	1,544
Asphalt and Road Oil .....	625	704	1,329	4,225	1,226	291	5,742
Still Gas .....	1,070	53	1,123	2,962	641	1,129	4,732
Miscellaneous Products .....	62	23	85	342	115	57	514
<b>Total .....</b>	<b>16,190</b>	<b>3,276</b>	<b>19,466</b>	<b>53,313</b>	<b>12,884</b>	<b>18,504</b>	<b>84,701</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	-1,286	27	-1,259	-4,828	-1,422	-1,212	-7,462

See footnotes at end of table.

**Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, July 2019**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	1,178	8,573	6,047	45	79	15,922	556	2,243	26,412
Natural Gas Liquids .....	746	4,928	3,115	28	79	8,896	472	2,177	17,405
Ethane .....	11	152	10	—	—	173	—	—	173
Propane .....	342	2,288	2,110	8	42	4,790	305	1,069	9,064
Normal Butane .....	415	3,053	868	20	31	4,387	164	977	8,644
Isobutane .....	-22	-565	127	—	6	-454	3	131	-476
Natural Gasoline .....	—	—	—	—	—	—	—	—	—
Refinery Olefins .....	432	3,645	2,932	17	—	7,026	84	66	9,007
Ethylene .....	—	—	—	—	—	—	—	—	13
Propylene .....	428	3,569	3,055	17	—	7,069	12	149	8,879
Normal Butylene .....	4	108	-123	—	—	-11	72	-83	114
Isobutylene .....	—	-32	—	—	—	-32	—	—	1
Finished Motor Gasoline .....	2,609	11,903	9,270	446	651	24,879	5,482	2,857	47,394
Reformulated .....	—	—	—	—	—	—	—	603	1,434
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	603	1,434
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	2,609	11,903	9,270	446	651	24,879	5,482	2,254	45,960
Conventional Blended with Fuel Ethanol .....	2,392	530	1,920	422	498	5,762	3,252	301	15,207
Ed55 and Lower .....	2,391	530	1,920	422	498	5,761	3,252	301	15,206
Greater than Ed55 .....	1	—	—	—	—	1	—	—	1
Conventional Other .....	217	11,373	7,350	24	153	19,117	2,230	1,953	30,753
Finished Aviation Gasoline .....	83	62	189	—	—	334	8	100	472
Kerosene-Type Jet Fuel .....	1,608	15,627	13,234	191	—	30,660	1,082	15,124	59,484
Kerosene .....	-3	121	24	2	—	144	—	2	325
Distillate Fuel Oil .....	6,752	44,371	36,741	2,626	1,634	92,124	7,153	18,242	161,602
15 ppm sulfur and under .....	6,752	42,592	30,875	2,466	1,634	84,319	7,106	17,741	153,166
Greater than 15 ppm to 500 ppm sulfur .....	—	306	2,108	99	—	2,513	32	308	2,891
Greater than 500 ppm sulfur .....	—	1,473	3,758	61	—	5,292	15	193	5,545
Residual Fuel Oil .....	334	1,327	3,982	-25	145	5,763	382	3,164	12,086
Less than 0.31 percent sulfur .....	247	34	1,173	—	—	1,454	190	—	1,720
0.31 to 1.00 percent sulfur .....	—	30	638	-25	—	643	26	225	1,973
Greater than 1.00 percent sulfur .....	87	1,263	2,171	—	145	3,666	166	2,939	8,393
Petrochemical Feedstocks .....	141	5,603	2,756	2	—	8,502	—	1	9,547
Naphtha for Petro. Feed. Use .....	127	3,749	1,612	2	—	5,490	—	1	6,160
Other Oils for Petro. Feed. Use .....	14	1,854	1,144	—	—	3,012	—	—	3,387
Special Naphthas .....	69	712	—	228	—	1,009	—	36	1,035
Lubricants .....	21	1,782	1,761	890	—	4,454	—	526	5,635
Waxes .....	—	39	52	27	—	118	—	—	159
Petroleum Coke .....	417	8,684	5,546	151	34	14,832	848	4,970	28,008
Marketable .....	165	6,705	4,272	140	—	11,282	595	3,857	21,009
Catalyst .....	252	1,979	1,274	11	34	3,550	253	1,113	6,999
Asphalt and Road Oil .....	232	540	743	1,154	45	2,714	1,553	947	12,285
Still Gas .....	698	6,039	4,275	230	111	11,353	784	3,704	21,696
Miscellaneous Products .....	106	1,049	522	17	17	1,711	135	414	2,859
<b>Total .....</b>	<b>14,245</b>	<b>106,432</b>	<b>85,142</b>	<b>5,984</b>	<b>2,716</b>	<b>214,519</b>	<b>17,983</b>	<b>52,330</b>	<b>388,999</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	-1,068	-10,042	-7,573	54	12	-18,617	-919	-5,156	-33,413

— = No Data Reported.

<sup>1</sup> Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."



**Table 32. Blender Net Inputs of Petroleum Products by PAD District, July 2019**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Hydrocarbon Gas Liquids</b> .....	54	—	54	3	5	66	74
Natural Gas Liquids .....	54	—	54	3	5	66	74
Normal Butane .....	18	—	18	3	5	30	38
Isobutane .....	—	—	—	—	—	—	—
Natural Gasoline .....	36	—	36	—	—	36	36
<b>Other Liquids</b> .....	95,694	6,797	102,491	47,242	9,839	14,986	72,067
Oxygenates/Renewables .....	10,008	723	10,731	5,133	1,277	1,649	8,059
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	10,008	723	10,731	5,133	1,277	1,649	8,059
Fuel Ethanol .....	9,818	678	10,496	4,948	1,068	1,590	7,606
Renewable Diesel Fuel <sup>2</sup> .....	190	45	235	185	209	59	453
Other Renewable Fuels .....	—	—	—	—	—	—	—
Unfinished Oils (net) .....	—	—	—	-53	—	—	-53
Naphthas and Lighter .....	—	—	—	—	—	—	—
Kerosene and Light Gas Oils .....	—	—	—	—	—	—	—
Heavy Gas Oils .....	—	—	—	—	—	—	—
Residuum .....	—	—	—	-53	—	—	-53
Motor Gasoline Blend.Comp. (MGBC)(net) .....	85,686	6,074	91,760	42,162	8,562	13,337	64,061
Reformulated - RBOB .....	25,808	121	25,929	7,424	1,464	1,040	9,928
Conventional .....	59,878	5,953	65,831	34,738	7,098	12,297	54,133
CBOB .....	44,481	5,953	50,434	34,734	6,976	12,293	54,003
GTAB .....	6,984	—	6,984	—	—	—	—
Other .....	8,413	—	8,413	4	122	4	130
Aviation Gasoline Blend. Comp. (net) .....	—	—	—	—	—	—	—
<b>Total Input</b> .....	95,748	6,797	102,545	47,245	9,844	15,052	72,141

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Hydrocarbon Gas Liquids</b> .....	12	919	1	1	—	933	21	8	1,090
Natural Gas Liquids .....	12	919	1	1	—	933	21	8	1,090
Normal Butane .....	—	64	1	1	—	66	6	8	136
Isobutane .....	—	—	—	—	—	—	2	—	2
Natural Gasoline .....	12	855	—	—	—	867	13	—	952
<b>Other Liquids</b> .....	18,346	10,944	3,240	9,316	1,247	43,093	5,364	46,929	269,944
Oxygenates/Renewables .....	1,940	834	322	1,051	134	4,281	722	5,220	29,013
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	1,940	834	322	1,051	134	4,281	722	5,220	29,013
Fuel Ethanol .....	1,882	796	322	1,024	126	4,150	705	4,868	27,825
Renewable Diesel Fuel <sup>2</sup> .....	58	38	—	27	8	131	17	347	1,183
Other Renewable Fuels .....	—	—	—	—	—	—	—	5	5
Unfinished Oils (net) .....	—	-128	—	—	—	-128	—	—	-181
Naphthas and Lighter .....	—	—	—	—	—	—	—	—	—
Kerosene and Light Gas Oils .....	—	-128	—	—	—	-128	—	—	-128
Heavy Gas Oils .....	—	—	—	—	—	—	—	—	—
Residuum .....	—	—	—	—	—	—	—	—	-53
Motor Gasoline Blend.Comp. (MGBC)(net) .....	16,406	10,238	2,918	8,265	1,113	38,940	4,642	41,709	241,112
Reformulated - RBOB .....	6,988	4,776	—	—	—	11,764	—	30,445	78,066
Conventional .....	9,418	5,462	2,918	8,265	1,113	27,176	4,642	11,264	163,046
CBOB .....	9,418	-1,233	1,727	8,265	1,103	19,280	4,641	11,267	139,625
GTAB .....	—	—	—	—	—	—	—	—	6,984
Other .....	—	6,695	1,191	—	10	7,896	1	-3	16,437
Aviation Gasoline Blend. Comp. (net) .....	—	—	—	—	—	—	—	—	—
<b>Total Input</b> .....	18,358	11,863	3,241	9,317	1,247	44,026	5,385	46,937	271,034

— = No Data Reported.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 33. Blender Net Production of Petroleum Products by PAD District, July 2019**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline .....	95,560	6,751	102,311	47,113	9,634	14,994	71,741
Reformulated .....	40,399	253	40,652	8,257	1,632	1,156	11,045
Reformulated Blended with Fuel Ethanol .....	40,399	253	40,652	8,257	1,632	1,156	11,045
Reformulated Other .....	-	-	-	-	-	-	-
Conventional .....	55,161	6,498	61,659	38,856	8,002	13,838	60,696
Conventional Blended with Fuel Ethanol .....	56,934	6,518	63,452	40,634	8,722	14,093	63,449
Ed55 and Lower .....	56,886	6,518	63,404	40,620	8,691	14,015	63,326
Greater than Ed55 .....	48	-	48	14	31	78	123
Conventional Other .....	-1,773	-20	-1,793	-1,778	-720	-255	-2,753
Finished Aviation Gasoline .....	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel .....	0	-	0	-27	-1	0	-28
Kerosene .....	-	-2	-2	-	-	-	-
Distillate Fuel Oil .....	193	47	240	212	209	55	476
15 ppm sulfur and under .....	156	47	203	212	209	55	476
Greater than 15 ppm to 500 ppm sulfur .....	69	-	69	-	-	119	119
Greater than 500 ppm sulfur .....	-32	-	-32	-	-	-119	-119
Residual Fuel Oil .....	-7	-	-7	-	-	-	-
Less than 0.31 percent sulfur .....	-7	-	-7	-	-	-	-
0.31 to 1.00 percent sulfur .....	-	-	-	-	-	-	-
Greater than 1.00 percent sulfur .....	-	-	-	-	-	-	-
Special Naphthas .....	-	-	-	-	-	-	-
Lubricants .....	-	-	-	-	-	-	-
Asphalt and Road Oil .....	-	-	-	-53	1	4	-48
Miscellaneous Products .....	-	-	-	-	-	-	-
<b>Total Production</b> .....	<b>95,746</b>	<b>6,796</b>	<b>102,542</b>	<b>47,245</b>	<b>9,843</b>	<b>15,053</b>	<b>72,141</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	2	1	3	0	1	-1	0

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline .....	18,301	11,972	3,241	9,291	1,238	44,043	5,367	46,583	270,045
Reformulated .....	7,736	6,805	-	-	-	14,541	-	33,828	100,066
Reformulated Blended with Fuel Ethanol .....	7,736	6,805	-	-	-	14,541	-	33,828	100,066
Reformulated Other .....	-	-	-	-	-	-	-	-	-
Conventional .....	10,565	5,167	3,241	9,291	1,238	29,502	5,367	12,755	169,979
Conventional Blended with Fuel Ethanol .....	10,797	1,168	3,202	10,128	1,276	26,571	6,933	14,576	174,981
Ed55 and Lower .....	10,776	1,168	3,202	10,114	1,276	26,536	6,919	14,553	174,738
Greater than Ed55 .....	21	-	-	14	-	35	14	23	243
Conventional Other .....	-232	3,999	39	-837	-38	2,931	-1,566	-1,821	-5,002
Finished Aviation Gasoline .....	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel .....	0	24	9	-	0	33	99	4	108
Kerosene .....	-	-26	1	-	-	-25	-	3	-24
Distillate Fuel Oil .....	56	-114	-10	27	9	-32	-83	343	944
15 ppm sulfur and under .....	56	23	-10	27	9	105	-83	339	1,040
Greater than 15 ppm to 500 ppm sulfur .....	-	-	-	-	-	-	-	-	188
Greater than 500 ppm sulfur .....	-	-137	-	-	-	-137	-	4	-284
Residual Fuel Oil .....	-	11	-6	-	-	5	-	3	1
Less than 0.31 percent sulfur .....	-	-	-	-	-	-	-	3	-4
0.31 to 1.00 percent sulfur .....	-	-	-	-	-	-	-	-	-
Greater than 1.00 percent sulfur .....	-	11	-6	-	-	5	-	-	5
Special Naphthas .....	-	-	-	-	-	-	-	-	-
Lubricants .....	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil .....	-	-	6	-	-	6	-	-	-42
Miscellaneous Products .....	-	-	-	-	-	-	-	-	-
<b>Total Production</b> .....	<b>18,357</b>	<b>11,867</b>	<b>3,241</b>	<b>9,318</b>	<b>1,247</b>	<b>44,030</b>	<b>5,383</b>	<b>46,936</b>	<b>271,032</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	1	-4	0	-1	0	-4	2	1	2

<sup>-</sup> = No Data Reported.

<sup>1</sup> Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2019**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Crude Oil</b> .....	<b>7,542</b>	<b>764</b>	<b>8,306</b>	<b>9,689</b>	<b>1,758</b>	<b>1,834</b>	<b>13,281</b>
<b>Petroleum Products</b> .....	<b>14,574</b>	<b>2,040</b>	<b>16,614</b>	<b>29,189</b>	<b>8,457</b>	<b>11,343</b>	<b>48,989</b>
Hydrocarbon Gas Liquids .....	742	23	765	2,860	555	1,838	5,253
Natural Gas Liquids .....	593	23	616	2,439	540	1,687	4,666
Ethane .....	—	—	—	—	—	—	—
Propane .....	74	7	81	568	28	789	1,385
Normal Butane .....	405	3	408	1,504	452	232	2,188
Isobutane .....	114	13	127	236	60	352	648
Natural Gasoline .....	—	—	—	131	—	314	445
Refinery Olefins .....	149	0	149	421	15	151	587
Ethylene .....	—	—	—	—	—	—	—
Propylene .....	99	0	99	317	15	151	483
Normal Butylene .....	17	0	17	104	0	0	104
Isobutylene .....	33	0	33	0	0	0	0
Oxygenates/Renewable Fuels/Other Hydrocarbons ...	173	84	257	70	47	30	147
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	173	84	257	46	47	30	123
Fuel Ethanol .....	173	79	252	26	39	25	90
Renewable Diesel Fuel <sup>2</sup> .....	—	5	5	20	8	5	33
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	24	—	—	24
Unfinished Oils .....	5,011	383	5,394	8,590	779	3,632	13,001
Naphthas and Lighter .....	1,149	241	1,390	2,242	212	1,044	3,498
Kerosene and Light Gas Oils .....	663	—	663	1,747	324	320	2,391
Heavy Gas Oils .....	2,036	133	2,169	3,264	239	1,252	4,755
Residuum .....	1,163	9	1,172	1,337	4	1,016	2,357
Motor Gasoline Blending Components (MGBC) .....	4,432	227	4,659	7,500	2,292	2,753	12,545
Reformulated - RBOB .....	1,011	—	1,011	867	—	—	867
Conventional .....	3,421	227	3,648	6,633	2,292	2,753	11,678
CBOB .....	716	179	895	2,572	1,087	1,662	5,321
GTAB .....	—	—	—	—	—	—	—
Other .....	2,705	48	2,753	4,061	1,205	1,091	6,357
Aviation Gasoline Blending Components .....	—	—	—	—	—	—	—
Finished Motor Gasoline .....	—	44	44	796	200	244	1,240
Reformulated .....	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—	—
Conventional .....	—	44	44	796	200	244	1,240
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—	—
Conventional Other .....	—	44	44	796	200	244	1,240
Finished Aviation Gasoline .....	—	—	—	—	77	—	77
Kerosene-Type Jet Fuel .....	545	—	545	1,303	280	305	1,888
Kerosene .....	90	1	91	115	—	14	129
Distillate Fuel Oil .....	2,257	241	2,498	3,328	1,243	1,681	6,252
15 ppm sulfur and under .....	1,883	70	1,953	3,182	1,083	1,528	5,793
Greater than 15 ppm to 500 ppm sulfur .....	108	152	260	—	9	94	103
Greater than 500 ppm sulfur .....	266	19	285	146	151	59	356
Residual Fuel Oil .....	707	17	724	768	241	89	1,098
Less than 0.31 percent sulfur .....	148	15	163	60	—	—	60
0.31 to 1.00 percent sulfur .....	76	2	78	100	59	—	159
Greater than 1.00 percent sulfur .....	483	—	483	608	182	89	879
Petrochemical Feedstocks .....	49	—	49	583	—	—	583
Naphtha for Petro. Feed. Use .....	49	—	49	465	—	—	465
Other Oils for Petro. Feed. Use .....	—	—	—	118	—	—	118
Special Naphthas .....	—	21	21	42	—	19	61
Lubricants .....	332	224	556	—	—	196	196
Waxes .....	—	337	337	—	—	50	50
Petroleum Coke .....	—	—	—	632	1,199	111	1,942
Marketable .....	—	—	—	632	1,199	111	1,942
Catalyst .....	—	—	—	—	—	—	—
Asphalt and Road Oil .....	225	419	644	2,535	1,523	376	4,434
Miscellaneous Products .....	11	19	30	67	21	5	93
<b>Total Stocks, All Oils</b> .....	<b>22,116</b>	<b>2,804</b>	<b>24,920</b>	<b>38,878</b>	<b>10,215</b>	<b>13,177</b>	<b>62,270</b>

See footnotes at end of table.

**Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2019**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Crude Oil</b> .....	<b>1,823</b>	<b>26,138</b>	<b>18,628</b>	<b>1,116</b>	<b>289</b>	<b>47,994</b>	<b>2,217</b>	<b>22,077</b>	<b>93,875</b>
<b>Petroleum Products</b> .....	<b>10,033</b>	<b>61,318</b>	<b>51,987</b>	<b>4,156</b>	<b>1,605</b>	<b>129,099</b>	<b>11,384</b>	<b>52,608</b>	<b>258,694</b>
Hydrocarbon Gas Liquids .....	3,216	2,067	4,981	11	96	10,371	505	1,442	18,336
Natural Gas Liquids .....	2,491	1,764	3,027	10	96	7,388	407	1,403	14,480
Ethane .....	232	—	—	—	—	232	—	—	232
Propane .....	591	219	349	1	4	1,164	40	100	2,770
Normal Butane .....	1,327	1,300	1,382	4	72	4,085	238	758	7,677
Isobutane .....	204	220	914	5	13	1,356	100	542	2,773
Natural Gasoline .....	137	25	382	—	7	551	29	3	1,028
Refinery Olefins .....	725	303	1,954	1	0	2,983	98	39	3,856
Ethylene .....	0	—	—	—	—	0	—	—	0
Propylene .....	718	48	577	1	0	1,344	0	15	1,941
Normal Butylene .....	7	255	1,377	0	0	1,639	98	24	1,882
Isobutylene .....	0	0	0	0	0	0	0	0	33
Oxygenates/Renewable Fuels/Other Hydrocarbons ...	44	54	314	73	12	497	216	465	1,582
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	44	54	314	73	12	497	216	465	1,558
Fuel Ethanol .....	38	38	71	39	9	195	125	32	694
Renewable Diesel Fuel <sup>2</sup> .....	6	16	243	34	3	302	91	433	864
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	—	—	—	—	—	24
Unfinished Oils .....	2,160	22,814	16,570	990	750	43,284	3,274	20,284	85,237
Naphthas and Lighter .....	750	6,198	2,280	231	187	9,646	782	3,141	18,457
Kerosene and Light Gas Oils .....	505	3,601	2,272	246	236	6,860	532	3,427	13,873
Heavy Gas Oils .....	445	11,159	9,354	441	327	21,726	1,384	10,487	40,521
Residuum .....	460	1,856	2,664	72	—	5,052	576	3,229	12,386
Motor Gasoline Blending Components (MGBC) .....	2,383	12,898	12,703	313	399	28,696	3,164	14,662	63,726
Reformulated - RBOB .....	174	1,227	792	—	—	2,193	—	5,770	9,841
Conventional .....	2,209	11,671	11,911	313	399	26,503	3,164	8,892	53,885
CBOB .....	1,183	3,987	6,271	204	109	11,754	1,642	2,184	21,796
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	1,026	7,684	5,640	109	290	14,749	1,522	6,708	32,089
Aviation Gasoline Blending Components .....	21	—	9	—	—	30	—	—	30
Finished Motor Gasoline .....	192	1,171	1,163	17	—	2,543	787	857	5,471
Reformulated .....	—	—	—	—	—	—	—	18	18
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	18	18
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	192	1,171	1,163	17	—	2,543	787	839	5,453
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	57	—	57
Ed55 and Lower .....	—	—	—	—	—	—	57	—	57
Greater than Ed55 .....	—	—	—	—	—	—	—	—	—
Conventional Other .....	192	1,171	1,163	17	—	2,543	730	839	5,396
Finished Aviation Gasoline .....	24	113	107	—	—	244	9	130	460
Kerosene-Type Jet Fuel .....	318	3,788	2,719	117	—	6,942	355	3,800	13,530
Kerosene .....	19	6	105	6	—	136	—	3	359
Distillate Fuel Oil .....	1,011	7,154	7,026	422	137	15,750	1,830	5,639	31,969
15 ppm sulfur and under .....	952	6,062	5,425	231	137	12,807	1,673	5,121	27,347
Greater than 15 ppm to 500 ppm sulfur .....	59	114	582	76	—	831	108	225	1,527
Greater than 500 ppm sulfur .....	—	978	1,019	115	—	2,112	49	293	3,095
Residual Fuel Oil .....	79	2,209	1,507	8	79	3,882	215	2,208	8,127
Less than 0.31 percent sulfur .....	6	—	188	—	—	194	31	—	448
0.31 to 1.00 percent sulfur .....	—	82	101	8	—	191	3	199	630
Greater than 1.00 percent sulfur .....	73	2,127	1,218	—	79	3,497	181	2,009	7,049
Petrochemical Feedstocks .....	113	1,838	677	23	—	2,651	—	4	3,287
Naphtha for Petro. Feed. Use .....	37	1,190	630	23	—	1,880	—	4	2,398
Other Oils for Petro. Feed. Use .....	76	648	47	—	—	771	—	—	889
Special Naphthas .....	89	713	—	82	—	884	—	53	1,019
Lubricants .....	47	2,309	1,968	848	—	5,172	—	512	6,436
Waxes .....	—	57	155	84	—	296	—	—	683
Petroleum Coke .....	30	3,702	1,368	—	—	5,100	149	1,680	8,871
Marketable .....	30	3,702	1,368	—	—	5,100	149	1,680	8,871
Catalyst .....	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil .....	272	162	516	1,162	104	2,216	860	794	8,948
Miscellaneous Products .....	15	263	99	—	28	405	20	75	623
<b>Total Stocks, All Oils</b> .....	<b>11,856</b>	<b>87,456</b>	<b>70,615</b>	<b>5,272</b>	<b>1,894</b>	<b>177,093</b>	<b>13,601</b>	<b>74,685</b>	<b>352,569</b>

— = No Data Reported.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, July 2019

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	4.9	2.7	4.7	6.1	3.9	2.3	5.0
Finished Motor Gasoline <sup>1</sup> .....	45.5	37.1	44.6	49.8	46.4	48.8	49.1
Finished Aviation Gasoline <sup>2</sup> .....	—	—	—	—	0.2	—	0.0
Kerosene-Type Jet Fuel .....	13.3	—	11.9	8.3	6.8	4.2	7.2
Kerosene .....	0.6	—	0.5	0.0	—	0.0	0.0
Distillate Fuel Oil <sup>3</sup> .....	25.0	25.7	25.0	24.9	30.5	38.6	28.7
Residual Fuel Oil .....	4.8	0.0	4.3	1.4	1.3	0.5	1.2
Naphtha for Petro. Feed. Use .....	—	—	—	0.8	—	—	0.5
Other Oils for Petro. Feed. Use .....	—	—	—	0.4	—	0.1	0.3
Special Naphthas .....	—	0.8	0.1	-0.1	—	0.1	0.0
Lubricants .....	0.7	7.2	1.4	—	—	0.9	0.2
Waxes .....	—	0.1	0.0	—	—	0.1	0.0
Petroleum Coke .....	3.4	0.7	3.1	5.1	7.4	3.5	5.1
Asphalt and Road Oil .....	2.4	22.4	4.6	5.1	7.5	1.0	4.5
Still Gas .....	4.2	1.7	3.9	3.6	3.9	4.0	3.7
Miscellaneous Products .....	0.2	0.7	0.3	0.4	0.7	0.2	0.4
Processing Gain(-) or Loss(+) <sup>4</sup> .....	-5.0	0.9	-4.3	-5.8	-8.7	-4.3	-5.8

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	5.5	5.9	5.1	0.6	2.0	5.4	2.6	2.7	4.7
Finished Motor Gasoline <sup>1</sup> .....	51.4	41.9	42.2	25.7	47.3	42.4	46.8	46.9	44.9
Finished Aviation Gasoline <sup>2</sup> .....	0.4	0.0	0.2	—	—	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel .....	7.4	10.8	11.2	2.6	—	10.3	5.0	18.3	10.7
Kerosene .....	0.0	0.1	0.0	0.0	—	0.1	—	0.0	0.1
Distillate Fuel Oil <sup>3</sup> .....	31.0	30.5	31.1	34.7	41.4	31.0	32.8	21.6	28.8
Residual Fuel Oil .....	1.6	0.9	3.4	-0.3	3.7	1.9	1.8	3.8	2.2
Naphtha for Petro. Feed. Use .....	0.6	2.6	1.4	0.0	—	1.9	—	0.0	1.1
Other Oils for Petro. Feed. Use .....	0.1	1.3	1.0	—	—	1.0	—	—	0.6
Special Naphthas .....	0.3	0.5	—	3.0	—	0.3	—	0.0	0.2
Lubricants .....	0.1	1.2	1.5	11.9	—	1.5	—	0.6	1.0
Waxes .....	—	0.0	0.0	0.4	—	0.0	—	—	0.0
Petroleum Coke .....	1.9	6.0	4.7	2.0	0.9	5.0	3.9	6.0	5.0
Asphalt and Road Oil .....	1.1	0.4	0.6	15.4	1.2	0.9	7.2	1.1	2.2
Still Gas .....	3.2	4.2	3.6	3.1	2.8	3.8	3.6	4.5	3.9
Miscellaneous Products .....	0.5	0.7	0.4	0.0	0.0	0.6	0.6	0.5	0.5
Processing Gain(-) or Loss(+) <sup>4</sup> .....	-4.9	-6.9	-6.4	0.7	0.3	-6.3	-4.2	-6.2	-6.0

— = No Data Reported.

<sup>1</sup> Based on net production of finished motor gasoline minus input of natural gas plant liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components.

<sup>2</sup> Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

<sup>3</sup> Based on distillate fuel oil net production minus input of biodiesel, "other" renewable diesel fuels, and "other" renewable fuels.

<sup>4</sup> Represents the arithmetic difference between input and production.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

**Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, July 2019**  
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil			
	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>PAD District 1</b> .....	<b>57</b>	<b>241</b>	<b>1,306</b>	<b>1,604</b>
Connecticut .....	—	—	—	—
Delaware .....	—	—	—	—
Florida .....	—	—	117	117
Georgia .....	—	—	—	—
Maine .....	—	—	—	—
Maryland .....	—	—	—	—
Massachusetts .....	—	—	—	—
New Hampshire .....	—	—	—	—
New Jersey .....	—	240	1,189	1,429
New York .....	57	—	—	57
North Carolina .....	—	—	—	—
Pennsylvania .....	—	—	—	—
Rhode Island .....	—	—	—	—
South Carolina .....	—	—	—	—
Vermont .....	—	1	—	1
Virginia .....	—	—	—	—
West Virginia .....	—	—	—	—
<b>PAD District 2</b> .....	<b>—</b>	<b>13</b>	<b>74</b>	<b>87</b>
Illinois .....	—	—	—	—
Indiana .....	—	—	—	—
Michigan .....	—	—	69	69
Minnesota .....	—	7	5	12
North Dakota .....	—	6	—	6
Ohio .....	—	—	—	—
Wisconsin .....	—	—	—	—
<b>PAD District 3</b> .....	<b>590</b>	<b>—</b>	<b>748</b>	<b>1,338</b>
Alabama .....	—	—	—	—
Louisiana .....	—	—	—	—
Mississippi .....	—	—	—	—
New Mexico .....	—	—	—	—
Texas .....	590	—	748	1,338
<b>PAD District 4</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
Idaho .....	—	—	—	—
Montana .....	—	—	—	—
<b>PAD District 5</b> .....	<b>—</b>	<b>134</b>	<b>—</b>	<b>134</b>
Alaska .....	—	—	—	—
California .....	—	—	—	—
Hawaii .....	—	—	—	—
Oregon .....	—	—	—	—
Washington .....	—	134	—	134
<b>U.S. Total</b> .....	<b>647</b>	<b>388</b>	<b>2,128</b>	<b>3,163</b>

— = No Data Reported.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."



**Table 37. Imports of Crude Oil and Petroleum Products by PAD District, July 2019**  
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1,2</sup></b>	<b>18,598</b>	<b>84,444</b>	<b>62,495</b>	<b>11,131</b>	<b>38,320</b>	<b>214,988</b>	<b>6,935</b>
<b>Hydrocarbon Gas Liquids</b>	<b>908</b>	<b>2,703</b>	<b>130</b>	<b>252</b>	<b>1,558</b>	<b>5,551</b>	<b>179</b>
Natural Gas Liquids	653	2,423	—	252	1,558	4,886	158
Ethane	—	—	—	—	—	—	—
Propane	532	1,412	—	247	1,055	3,246	105
Normal Butane	22	759	—	2	478	1,261	41
Isobutane	99	245	—	3	25	372	12
Natural Gasoline	—	7	—	—	—	7	0
Refinery Olefins	255	280	130	—	—	665	21
Ethylene	—	—	—	—	—	—	—
Propylene	255	238	—	—	—	493	16
Normal Butylene	—	42	130	—	—	172	6
Isobutylene	—	—	—	—	—	—	—
<b>Other Liquids</b>	<b>26,044</b>	<b>305</b>	<b>21,595</b>	<b>145</b>	<b>5,311</b>	<b>53,400</b>	<b>1,723</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	49	125	183	28	1,167	1,552	50
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	129	—	—	129	4
Methyl Tertiary Butyl Ether (MTBE)	—	—	44	—	—	44	1
Other Oxygenates <sup>3</sup>	—	—	85	—	—	85	3
Renewable Fuels (including Fuel Ethanol)	49	125	54	28	1,167	1,423	46
Fuel Ethanol	—	—	—	—	544	544	18
Biodiesel	49	125	54	28	77	333	11
Other Renewable Diesel Fuel	—	—	—	—	546	546	18
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils <sup>1</sup>	1,323	60	18,324	—	3,558	23,265	750
Naphthas and Lighter	556	60	634	—	—	1,250	40
Kerosene and Lighter Gas Oils	—	—	48	—	—	48	2
Heavy Gas Oils	767	—	9,526	—	3,054	13,347	431
Residuum	—	—	8,116	—	504	8,620	278
Motor Gasoline Blend Comp. (MGBC)	24,672	120	3,088	117	586	28,583	922
Reformulated - RBOB	6,009	—	256	—	—	6,265	202
Conventional	18,663	120	2,832	117	586	22,318	720
CBOB	1,686	—	—	—	—	1,686	54
GTAB	4,535	—	259	—	—	4,794	155
Other	12,442	120	2,573	117	586	15,838	511
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b>	<b>9,978</b>	<b>1,140</b>	<b>4,671</b>	<b>137</b>	<b>6,207</b>	<b>22,133</b>	<b>714</b>
Finished Motor Gasoline	684	—	—	—	710	1,394	45
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	684	—	—	—	710	1,394	45
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	684	—	—	—	710	1,394	45
Finished Aviation Gasoline	24	5	—	14	2	45	1
Kerosene-Type Jet Fuel	1,906	—	—	—	4,718	6,624	214
Bonded Aircraft Fuel	381	—	—	—	3,091	3,472	112
Other	1,525	—	—	—	1,627	3,152	102
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	3,777	324	706	113	425	5,345	172
15 ppm sulfur and under	3,254	229	—	113	424	4,020	130
Bonded	—	—	—	—	—	—	—
Other	3,254	229	—	113	424	4,020	130
Greater than 15 ppm to 500 ppm sulfur	33	—	—	—	—	33	1
Bonded	—	—	—	—	—	—	—
Other	33	—	—	—	—	33	1
Greater than 500 ppm to 2000 ppm sulfur	9	35	—	—	1	45	1
Bonded	—	—	—	—	—	—	—
Other	9	35	—	—	1	45	1
Greater than 2000 ppm	481	60	706	—	—	1,247	40
Bonded	—	—	—	—	—	—	—
Other	481	60	706	—	—	1,247	40
Residual Fuel Oil	1,604	87	1,338	—	134	3,163	102
Less than 0.31 percent sulfur	57	—	590	—	—	647	21
0.31 to 1.00 percent sulfur	241	13	—	—	134	388	13
Greater than 1.00 percent sulfur	1,306	74	748	—	—	2,128	69
Petrochemical Feedstocks	1	141	299	—	22	463	15
Naphtha for Petro. Feed. Use	1	90	291	—	22	404	13
Other Oils for Petro. Feed. Use	—	51	8	—	—	59	2
Special Naphthas	—	4	832	—	—	836	27
Lubricants	649	128	1,396	—	29	2,202	71
Waxes	44	—	6	—	62	112	4
Petroleum Coke (Marketable)	1	31	94	—	24	150	5
Asphalt and Road Oil	1,288	420	—	9	81	1,798	58
Miscellaneous Products	—	—	—	1	—	1	0
<b>Total</b>	<b>55,528</b>	<b>88,592</b>	<b>88,891</b>	<b>11,665</b>	<b>51,396</b>	<b>296,072</b>	<b>9,551</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-July 2019**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1,2</sup></b>	<b>160,676</b>	<b>545,654</b>	<b>454,782</b>	<b>64,644</b>	<b>265,016</b>	<b>1,490,772</b>	<b>7,032</b>
<b>Hydrocarbon Gas Liquids</b>	<b>10,998</b>	<b>19,689</b>	<b>706</b>	<b>2,475</b>	<b>11,524</b>	<b>45,392</b>	<b>214</b>
Natural Gas Liquids	9,304	17,721	—	2,475	11,524	41,024	194
Ethane	—	—	—	—	—	—	—
Propane	7,775	12,606	—	2,099	7,129	29,609	140
Normal Butane	313	3,937	—	273	3,952	8,475	40
Isobutane	1,216	1,145	—	103	443	2,907	14
Natural Gasoline	—	33	—	—	—	33	0
Refinery Olefins	1,694	1,968	706	—	—	4,368	21
Ethylene	—	—	—	—	—	—	—
Propylene	1,694	1,558	—	—	—	3,252	15
Normal Butylene	—	380	706	—	—	1,086	5
Isobutylene	—	—	—	—	—	30	0
<b>Other Liquids</b>	<b>139,077</b>	<b>3,179</b>	<b>115,740</b>	<b>984</b>	<b>34,094</b>	<b>293,074</b>	<b>1,382</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,133	653	888	112	5,540	8,326	39
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	694	—	—	694	3
Methyl Tertiary Butyl Ether (MTBE)	—	—	170	—	—	170	1
Other Oxygenates <sup>3</sup>	—	—	524	—	—	524	2
Renewable Fuels (including Fuel Ethanol)	1,133	653	167	112	5,540	7,605	36
Fuel Ethanol	—	—	—	—	1,682	1,682	8
Biodiesel	1,133	653	167	112	353	2,418	11
Other Renewable Diesel Fuel	—	—	—	—	3,505	3,505	17
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	27	—	—	27	0
Unfinished Oils <sup>1</sup>	11,452	315	98,101	—	17,189	127,057	599
Naphthas and Lighter	3,740	88	1,607	—	397	5,832	28
Kerosene and Lighter Gas Oils	—	—	143	—	—	143	1
Heavy Gas Oils	7,712	227	64,348	—	16,243	88,530	418
Residuum	—	—	32,003	—	549	32,552	154
Motor Gasoline Blend Comp. (MGBC)	126,492	2,211	16,751	872	11,365	157,691	744
Reformulated - RBOB	33,880	—	581	—	2,255	36,716	173
Conventional	92,612	2,211	16,170	872	9,110	120,975	571
CBOB	8,346	569	—	—	1,371	10,286	49
GTAB	21,196	—	907	—	607	22,710	107
Other	63,070	1,642	15,263	872	7,132	87,979	415
Aviation Gasoline Blend Comp.	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b>	<b>80,379</b>	<b>6,442</b>	<b>25,660</b>	<b>1,037</b>	<b>35,544</b>	<b>149,062</b>	<b>703</b>
Finished Motor Gasoline	10,483	1	512	—	3,407	14,403	68
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	10,483	1	512	—	3,407	14,403	68
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	10,483	1	512	—	3,407	14,403	68
Finished Aviation Gasoline	49	23	59	16	26	173	1
Kerosene-Type Jet Fuel	12,156	—	30	—	22,883	35,069	165
Bonded Aircraft Fuel	2,794	—	—	—	9,214	12,008	57
Other	9,362	—	30	—	13,669	23,061	109
Kerosene	101	—	—	—	—	101	0
Distillate Fuel Oil	34,943	1,975	1,813	717	2,709	42,157	199
15 ppm sulfur and under	33,270	1,424	516	717	2,702	38,629	182
Bonded	—	—	—	—	—	—	—
Other	33,270	1,424	516	717	2,702	38,629	182
Greater than 15 ppm to 500 ppm sulfur	598	—	—	—	—	598	3
Bonded	—	—	—	—	—	—	—
Other	598	—	—	—	—	598	3
Greater than 500 ppm to 2000 ppm sulfur	594	337	261	—	7	1,199	6
Bonded	—	—	—	—	—	—	—
Other	594	337	261	—	7	1,199	6
Greater than 2000 ppm	481	214	1,036	—	—	1,731	8
Bonded	—	—	—	—	—	—	—
Other	481	214	1,036	—	—	1,731	8
Residual Fuel Oil	14,950	508	9,795	97	4,372	29,722	140
Less than 0.31 percent sulfur	996	—	2,181	—	338	3,515	17
0.31 to 1.00 percent sulfur	1,864	156	578	—	1,499	4,097	19
Greater than 1.00 percent sulfur	12,090	352	7,036	97	2,535	22,110	104
Petrochemical Feedstocks	19	1,109	2,183	—	235	3,546	17
Naphtha for Petro. Feed. Use	8	581	2,036	—	235	2,860	13
Other Oils for Petro. Feed. Use	11	528	147	—	—	686	3
Special Naphthas	2	40	3,257	—	—	3,299	16
Lubricants	1,648	822	6,896	1	525	9,892	47
Waxes	472	34	171	—	371	1,048	5
Petroleum Coke (Marketable)	22	197	944	—	166	1,329	6
Asphalt and Road Oil	5,534	1,733	—	199	850	8,316	39
Miscellaneous Products	—	—	—	7	—	7	0
<b>Total</b>	<b>391,130</b>	<b>574,964</b>	<b>596,888</b>	<b>69,140</b>	<b>346,178</b>	<b>1,978,300</b>	<b>9,332</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, July 2019**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>37,437</b>	—	—	<b>4,752</b>	—	—	—	—	<b>730</b>	<b>730</b>
Algeria .....	—	—	—	1,900	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	897	—	—	—	—	—	—	—	—	—
Ecuador .....	5,634	—	—	507	—	—	—	—	—	—
Equatorial Guinea .....	505	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	10,843	—	—	312	—	—	—	—	—	—
Kuwait .....	614	—	—	—	—	—	—	—	—	—
Libya .....	1,000	—	—	207	—	—	—	—	—	—
Nigeria .....	5,710	—	—	—	—	—	—	—	279	279
Saudi Arabia .....	12,234	—	—	1,826	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	451	451
Venezuela .....	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	<b>177,551</b>	<b>4,886</b>	<b>665</b>	<b>18,513</b>	—	<b>1,394</b>	<b>1,394</b>	<b>6,265</b>	<b>21,588</b>	<b>27,853</b>
Argentina .....	2,453	—	—	—	—	—	—	—	128	128
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	1,700	—	—	—	564	979	1,543
Brazil .....	7,249	—	—	—	—	—	—	—	2,671	2,671
Brunei .....	988	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—
Canada .....	128,057	4,821	535	559	—	426	426	2,057	1,630	3,687
Chad .....	476	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—
Colombia .....	9,191	—	—	200	—	—	—	—	552	552
Denmark .....	—	—	—	20	—	—	—	—	20	20
Egypt .....	—	—	—	2,339	—	—	—	—	252	252
Estonia .....	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	33	—	—	—	—	1,369	1,369
France .....	—	—	—	—	—	—	—	620	—	620
Germany .....	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	279	—	—	—	—	2,690	2,690
Indonesia .....	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	1,325	—	—	—	—	430	430
Korea, South .....	—	—	—	109	—	672	672	—	424	424
Latvia .....	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	845	845
Malaysia .....	—	—	—	—	—	—	—	—	—	—
Mexico .....	19,720	—	36	—	—	—	—	—	—	—
Netherlands .....	—	—	—	446	—	—	—	1,058	2,090	3,148
Norway .....	199	—	—	—	—	—	—	372	518	890
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	1,349	1,349
Qatar .....	—	—	—	—	—	—	—	—	—	—
Russia .....	1,660	—	—	9,794	—	—	—	—	2,607	2,607
Spain .....	—	—	—	218	—	—	—	—	1,717	1,717
Sweden .....	—	—	—	66	—	—	—	—	24	24
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	2,095	—	—	—	—	—	—	—	—	—
United Kingdom .....	2,941	—	—	—	—	296	296	1,594	787	2,381
Vietnam .....	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	2,522	65	94	1,425	—	0	0	0	506	506
<b>Total</b> .....	<b>214,988</b>	<b>4,886</b>	<b>665</b>	<b>23,265</b>	—	<b>1,394</b>	<b>1,394</b>	<b>6,265</b>	<b>22,318</b>	<b>28,583</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>23,691</b>	—	—	<b>2,138</b>	—	—	—	—	<b>451</b>	<b>451</b>

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	<b>44</b>	<b>85</b>	<b>544</b>	<b>333</b>	<b>546</b>	<b>—</b>	<b>4,020</b>	<b>33</b>	<b>45</b>	<b>1,247</b>	<b>5,345</b>
Argentina .....	44	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	396	396
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	85	544	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	182	—	—	2,409	33	45	541	3,028
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	835	—	—	—	835
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	90	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	312	—	—	—	312
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	61	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	464	—	—	—	464
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—	310	310
Spain .....	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	546	—	0	0	0	0	0
<b>Total</b> .....	<b>44</b>	<b>85</b>	<b>544</b>	<b>333</b>	<b>546</b>	<b>—</b>	<b>4,020</b>	<b>33</b>	<b>45</b>	<b>1,247</b>	<b>5,345</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	527	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	527	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	—	45	—	6,097	836	647	388	2,128	3,163
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	19	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	22	—	796	152	57	148	224	429
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	126	—	—	—	—	—
Colombia .....	—	—	—	—	—	460	—	456	916
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	37	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	3,168	400	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	64	—	—	719	719
Netherlands .....	—	23	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	13	130	—	719	849
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	2,007	151	0	240	10	250
<b>Total</b> .....	—	45	—	6,624	836	647	388	2,128	3,163
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	527	—	—	—	—	—

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	—	—	—	—	—	563	—	6,572	44,009	1,208	212	1,420
Algeria .....	—	—	—	—	—	410	—	2,310	2,310	—	75	75
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	897	897	29	—	29
Ecuador .....	—	—	—	—	—	—	—	507	6,141	182	16	198
Equatorial Guinea .....	—	—	—	—	—	—	—	505	505	16	—	16
Gabon .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	312	11,155	350	10	360
Kuwait .....	—	—	—	—	—	—	—	—	614	20	—	20
Libya .....	—	—	—	—	—	—	—	207	1,207	32	7	39
Nigeria .....	—	—	—	—	—	—	—	279	5,989	184	9	193
Saudi Arabia .....	—	—	—	—	—	—	—	1,826	14,060	395	59	454
United Arab Emirates .....	—	—	—	—	—	153	—	1,131	1,131	—	36	36
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	404	59	112	150	1,798	1,639	1	74,512	252,063	5,727	2,404	8,131
Argentina .....	—	—	—	—	—	—	—	172	2,625	79	6	85
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	396	396	—	13	13
Bahrain .....	—	—	—	—	—	118	—	118	118	—	4	4
Belgium .....	1	—	—	—	—	35	—	3,279	3,279	—	106	106
Brazil .....	—	—	—	—	—	—	—	3,319	10,568	234	107	341
Brunei .....	—	—	—	—	—	—	—	—	988	32	—	32
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—	—
Canada .....	90	51	17	54	1,299	253	1	16,402	144,459	4,131	529	4,660
Chad .....	—	—	—	—	—	—	—	—	476	15	—	15
China .....	—	—	87	—	—	—	—	213	213	—	7	7
Colombia .....	—	—	—	—	—	—	—	2,503	11,694	296	81	377
Denmark .....	—	—	—	—	—	—	—	40	40	—	1	1
Egypt .....	—	—	—	—	—	—	—	2,591	2,591	—	84	84
Estonia .....	—	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	1,402	1,402	—	45	45
France .....	—	8	—	—	—	13	—	678	678	—	22	22
Germany .....	—	—	—	—	—	23	—	113	113	—	4	4
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	2,969	2,969	—	96	96
Indonesia .....	—	—	—	—	—	133	—	445	445	—	14	14
Italy .....	—	—	—	—	—	11	—	1,766	1,766	—	57	57
Korea, South .....	—	—	1	—	—	516	—	5,351	5,351	—	173	173
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	845	845	—	27	27
Malaysia .....	—	—	6	—	—	1	—	471	471	—	15	15
Mexico .....	234	—	—	—	—	—	—	1,053	20,773	636	34	670
Netherlands .....	—	—	—	—	—	1	—	3,618	3,618	—	117	117
Norway .....	—	—	—	—	—	—	—	890	1,089	6	29	35
Oman .....	—	—	—	94	—	—	—	94	94	—	3	3
Portugal .....	—	—	—	—	—	10	—	1,359	1,359	—	44	44
Qatar .....	—	—	—	—	—	524	—	524	524	—	17	17
Russia .....	—	—	—	—	—	—	—	13,573	15,233	54	438	491
Spain .....	—	—	—	—	71	—	—	2,006	2,006	—	65	65
Sweden .....	—	—	—	1	—	—	—	91	91	—	3	3
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	2,095	68	—	68
United Kingdom .....	10	—	—	—	—	—	—	2,687	5,628	95	87	182
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	69	0	1	1	428	1	0	5,544	8,066	81	176	258
<b>Total</b> .....	404	59	112	150	1,798	2,202	1	81,084	296,072	6,935	2,616	9,551
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	795	—	3,911	27,602	764	126	890

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."



**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-July 2019**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>336,108</b>	—	—	<b>24,956</b>	—	<b>81</b>	<b>81</b>	—	<b>5,618</b>	<b>5,618</b>
Algeria .....	6,413	—	—	16,003	—	—	—	—	—	—
Angola .....	6,319	—	—	651	—	—	—	—	—	—
Congo (Brazzaville) .....	5,537	—	—	173	—	—	—	—	—	—
Ecuador .....	34,971	—	—	540	—	—	—	—	—	—
Equatorial Guinea .....	2,623	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	74,423	—	—	312	—	—	—	—	—	—
Kuwait .....	12,487	—	—	—	—	—	—	—	—	—
Libya .....	11,451	—	—	1,123	—	—	—	—	—	—
Nigeria .....	34,288	—	—	360	—	—	—	1,119	1,119	1,119
Saudi Arabia .....	118,195	—	—	3,327	—	81	81	—	2,250	2,250
United Arab Emirates .....	—	—	—	2,422	—	—	—	—	943	943
Venezuela .....	29,401	—	—	45	—	—	—	—	1,306	1,306
<b>Non-OPEC</b> .....	<b>1,154,664</b>	<b>41,024</b>	<b>4,368</b>	<b>102,101</b>	—	<b>14,322</b>	<b>14,322</b>	<b>36,716</b>	<b>115,357</b>	<b>152,073</b>
Argentina .....	8,128	254	—	—	—	—	—	—	579	579
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	398	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	11,411	—	253	253	1,069	4,479	5,548
Brazil .....	26,428	—	—	1,155	—	—	—	—	11,781	11,781
Brunei .....	3,922	—	—	—	—	—	—	—	—	—
Cameroon .....	1,339	—	—	793	—	—	—	—	—	—
Canada .....	816,629	39,902	3,662	4,955	—	3,312	3,312	17,721	13,780	31,501
Chad .....	1,901	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	146	146
Colombia .....	76,414	—	—	676	—	—	—	—	2,747	2,747
Denmark .....	3,842	—	—	20	—	—	—	9	419	428
Egypt .....	3,846	—	—	6,717	—	138	138	—	337	337
Estonia .....	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	33	—	227	227	107	5,728	5,835
France .....	—	—	65	438	—	3,431	3,431	896	1,231	2,127
Germany .....	—	—	—	1,188	—	8	8	3	720	723
Guatemala .....	1,107	—	—	—	—	—	—	—	—	—
India .....	—	—	—	1,198	—	—	—	—	15,718	15,718
Indonesia .....	—	—	—	—	—	—	—	—	566	566
Italy .....	—	—	—	2,649	—	150	150	88	4,012	4,100
Korea, South .....	—	—	—	109	—	1,936	1,936	—	1,528	1,528
Latvia .....	—	—	—	—	—	—	—	—	69	69
Lithuania .....	—	—	—	12	—	—	—	—	1,170	1,170
Malaysia .....	—	—	—	289	—	—	—	—	—	—
Mexico .....	130,471	—	123	—	—	—	—	—	1,070	1,070
Netherlands .....	486	—	—	2,771	—	1,219	1,219	6,897	10,509	17,406
Norway .....	12,730	309	—	3,549	—	198	198	621	3,686	4,307
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	558	6,744	7,302
Qatar .....	—	—	—	—	—	—	—	—	—	—
Russia .....	27,381	—	—	50,777	—	300	300	31	8,163	8,194
Spain .....	194	—	—	2,645	—	—	—	1	7,134	7,135
Sweden .....	—	191	—	1,505	—	158	158	35	502	537
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	9,481	—	—	—	—	—	—	—	350	350
United Kingdom .....	14,931	192	—	1,146	—	2,382	2,382	8,672	5,080	13,752
Vietnam .....	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	15,434	176	518	7,667	—	610	610	8	7,109	7,117
<b>Total</b> .....	<b>1,490,772</b>	<b>41,024</b>	<b>4,368</b>	<b>127,057</b>	—	<b>14,403</b>	<b>14,403</b>	<b>36,716</b>	<b>120,975</b>	<b>157,691</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>205,105</b>	—	—	<b>6,061</b>	—	<b>81</b>	<b>81</b>	—	<b>3,193</b>	<b>3,193</b>

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	1,999	—	—	156	2,155
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	156	156
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	312	—	—	—	312
Saudi Arabia .....	—	—	—	—	—	—	1,193	—	—	—	1,193
United Arab Emirates .....	—	—	—	—	—	—	200	—	—	—	200
Venezuela .....	—	—	—	—	—	—	294	—	—	—	294
<b>Non-OPEC</b> .....	170	524	1,682	2,418	3,505	—	36,630	598	1,199	1,575	40,002
Argentina .....	170	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	501	—	—	396	897
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	143	—	—	—	—	—	—	—
Brazil .....	—	524	1,682	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	974	—	—	21,049	322	938	695	23,004
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	279	—	—	—	279
Colombia .....	—	—	—	—	—	—	4,593	—	—	—	4,593
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	121	—	—	—	—	—	—	—
Germany .....	—	—	—	720	—	—	—	—	106	—	106
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	6,477	—	—	—	6,477
Indonesia .....	—	—	—	—	—	—	312	—	—	—	312
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	261	—	—	518	—	—	—	518
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	464	—	—	—	464
Mexico .....	—	—	—	—	—	—	—	—	125	—	125
Netherlands .....	—	—	—	—	—	—	—	—	30	—	30
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	2,071	—	—	—	2,071
Russia .....	—	—	—	—	—	—	366	276	—	484	1,126
Spain .....	—	—	—	170	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	29	3,505	—	0	0	0	0	0
<b>Total</b> .....	170	524	1,682	2,418	3,505	—	38,629	598	1,199	1,731	42,157
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	3,464	—	—	—	3,464

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	1,391	—	—	—	3,262	3,262
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	150	150
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	24	—	—	—	—	—
Kuwait .....	—	—	—	101	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	20	—	—	—	—	—
Saudi Arabia .....	—	—	—	618	—	—	—	679	679
United Arab Emirates .....	—	—	—	527	—	—	—	20	20
Venezuela .....	—	—	—	101	—	—	—	2,413	2,413
<b>Non-OPEC</b> .....	101	173	—	33,678	3,299	3,515	4,097	18,848	26,460
Argentina .....	—	—	—	—	—	939	1,102	—	2,041
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	562	562
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	9	245	—	—	1	1
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	63	—	4,987	563	57	1,990	4,473	6,520
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	401	—	—	—	—	—
Colombia .....	101	—	—	—	—	560	40	3,060	3,660
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	37	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	237	197	—	—	4	4
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	10	—	19,959	1,334	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	6	146	749	20	4,445	5,214
Netherlands .....	—	100	—	—	—	—	—	925	925
Norway .....	—	—	—	—	—	—	—	244	244
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	484	—	—	—	—	—
Russia .....	—	—	—	—	13	872	99	4,036	5,007
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	286	286
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	7,595	764	338	846	812	1,996
<b>Total</b> .....	101	173	—	35,069	3,299	3,515	4,097	22,110	29,722
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	1,754	—	—	—	699	699

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b>	—	—	—	—	31	1,064	—	38,558	374,666	1,585	182	1,767
Algeria	—	—	—	—	—	410	—	16,413	22,826	30	77	108
Angola	—	—	—	—	—	—	—	651	6,970	30	3	33
Congo (Brazzaville)	—	—	—	—	—	—	—	173	5,710	26	1	27
Ecuador	—	—	—	—	—	—	—	846	35,817	165	4	169
Equatorial Guinea	—	—	—	—	—	—	—	—	2,623	12	—	12
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	336	74,759	351	2	353
Kuwait	—	—	—	—	—	—	—	101	12,588	59	0	59
Libya	—	—	—	—	—	—	—	1,123	12,574	54	5	59
Nigeria	—	—	—	—	—	—	—	1,811	36,099	162	9	170
Saudi Arabia	—	—	—	—	—	—	—	8,148	126,343	558	38	596
United Arab Emirates	—	—	—	—	—	654	—	4,766	4,766	—	22	22
Venezuela	—	—	—	—	31	—	—	4,190	33,591	139	20	158
<b>Non-OPEC</b>	2,860	686	1,048	1,329	8,285	8,828	7	448,970	1,603,634	5,447	2,118	7,564
Argentina	—	—	—	619	—	24	—	3,687	11,815	38	17	56
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	398	398	—	2	2
Bahamas	—	—	—	—	—	—	—	1,459	1,459	—	7	7
Bahrain	—	—	—	—	—	552	—	552	552	—	3	3
Belgium	1	—	—	—	—	82	—	17,438	17,438	—	82	82
Brazil	—	9	—	—	—	—	—	15,406	41,834	125	73	197
Brunei	—	—	—	—	—	—	—	—	3,922	19	—	19
Cameroon	—	—	—	—	—	—	—	793	2,132	6	4	10
Canada	581	539	300	350	6,784	1,621	7	129,625	946,254	3,852	611	4,463
Chad	—	—	—	—	—	—	—	—	1,901	9	—	9
China	—	—	465	—	—	—	—	1,291	1,291	—	6	6
Colombia	—	—	—	—	39	—	—	11,816	88,230	360	56	416
Denmark	—	—	—	—	—	—	—	448	4,290	18	2	20
Egypt	—	—	—	—	—	—	—	7,192	11,038	18	34	52
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	6,110	6,110	—	29	29
France	—	135	—	—	—	104	—	6,458	6,458	—	30	30
Germany	—	—	42	—	—	135	—	2,922	2,922	—	14	14
Guatemala	—	—	—	—	—	—	—	—	1,107	5	—	5
India	—	—	—	—	—	1	—	23,832	23,832	—	112	112
Indonesia	—	—	1	—	—	586	—	1,465	1,465	—	7	7
Italy	34	—	—	—	—	124	—	7,059	7,059	—	33	33
Korea, South	—	—	5	—	130	2,587	—	28,377	28,377	—	134	134
Latvia	—	—	—	—	—	—	—	69	69	—	0	0
Lithuania	—	—	—	—	—	—	—	1,182	1,182	—	6	6
Malaysia	—	—	62	—	65	2	—	882	882	—	4	4
Mexico	1,362	—	—	—	—	—	—	8,046	138,517	615	38	653
Netherlands	—	—	—	—	—	30	—	22,493	22,979	2	106	108
Norway	—	—	—	—	—	—	—	8,607	21,337	60	41	101
Oman	—	—	—	298	—	—	—	298	298	—	1	1
Portugal	—	—	—	—	—	10	—	7,312	7,312	—	34	34
Qatar	—	—	—	—	—	2,374	—	4,929	4,929	—	23	23
Russia	—	—	—	—	—	203	—	65,620	93,001	129	310	439
Spain	—	—	5	—	612	—	—	10,567	10,761	1	50	51
Sweden	—	—	—	19	—	5	—	2,701	2,701	—	13	13
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	350	9,831	45	2	46
United Kingdom	229	—	—	24	—	97	—	17,822	32,753	70	84	154
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	653	3	168	19	655	276	0	31,764	47,198	75	150	225
<b>Total</b>	<b>2,860</b>	<b>686</b>	<b>1,048</b>	<b>1,329</b>	<b>8,316</b>	<b>9,892</b>	<b>7</b>	<b>487,528</b>	<b>1,978,300</b>	<b>7,032</b>	<b>2,300</b>	<b>9,332</b>
<b>Persian Gulf<sup>3</sup></b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>3,580</b>	<b>—</b>	<b>18,832</b>	<b>223,937</b>	<b>967</b>	<b>89</b>	<b>1,056</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>6,780</b>	—	—	—	—	—	—	—	<b>730</b>	<b>730</b>
Algeria .....	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	897	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—
Nigeria .....	3,336	—	—	—	—	—	—	—	279	279
Saudi Arabia .....	2,547	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	451	451
Venezuela .....	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	<b>11,818</b>	<b>653</b>	<b>255</b>	<b>1,323</b>	—	<b>684</b>	<b>684</b>	<b>6,009</b>	<b>17,933</b>	<b>23,942</b>
Argentina .....	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	564	854	1,418
Brazil .....	—	—	—	—	—	—	—	—	1,392	1,392
Brunei .....	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—
Canada .....	7,130	653	255	391	—	388	388	2,057	1,393	3,450
Chad .....	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—
Colombia .....	970	—	—	—	—	—	—	—	552	552
Denmark .....	—	—	—	—	—	—	—	—	20	20
Egypt .....	—	—	—	—	—	—	—	—	252	252
Estonia .....	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	1,369	1,369
France .....	—	—	—	—	—	—	—	620	—	620
Germany .....	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	2,275	2,275
Indonesia .....	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	430	430
Korea, South .....	—	—	—	—	—	—	—	—	119	119
Latvia .....	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	845	845
Malaysia .....	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	1,058	1,761	2,819
Norway .....	199	—	—	—	—	—	—	372	518	890
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	1,349	1,349
Qatar .....	—	—	—	—	—	—	—	—	—	—
Russia .....	402	—	—	425	—	—	—	—	2,607	2,607
Spain .....	—	—	—	202	—	—	—	—	1,458	1,458
Sweden .....	—	—	—	—	—	—	—	—	24	24
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	595	—	—	—	—	296	296	1,338	365	1,703
Vietnam .....	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	2,522	0	0	305	—	0	0	0	350	350
<b>Total</b> .....	<b>18,598</b>	<b>653</b>	<b>255</b>	<b>1,323</b>	—	<b>684</b>	<b>684</b>	<b>6,009</b>	<b>18,663</b>	<b>24,672</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>2,547</b>	—	—	—	—	—	—	—	<b>451</b>	<b>451</b>

See footnotes at end of table.

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	—	—	—	49	—	—	3,254	33	9	481	3,777
Argentina .....	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	13	—	—	1,643	33	9	481	2,166
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	835	—	—	—	835
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	36	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	312	—	—	—	312
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	464	—	—	—	464
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	0	—	—	0	0	0	0	0
<b>Total</b> .....	—	—	—	49	—	—	3,254	33	9	481	3,777
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.



**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	527	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	527	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	—	24	—	1,379	—	57	241	1,306	1,604
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	1	—	796	—	57	1	150	208
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	456	456
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	583	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	107	107
Netherlands .....	—	23	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	583	583
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	0	—	0	240	10	250
<b>Total</b> .....	—	24	—	1,906	—	57	241	1,306	1,604
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	527	—	—	—	—	—

See footnotes at end of table.

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	—	—	—	—	—	460	—	1,717	8,497	219	55	274
Algeria .....	—	—	—	—	—	410	—	410	410	—	13	13
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	897	29	—	29
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	279	3,615	108	9	117
Saudi Arabia .....	—	—	—	—	—	—	—	—	2,547	82	—	82
United Arab Emirates .....	—	—	—	—	—	50	—	1,028	1,028	—	33	33
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	1	—	44	1	1,288	189	—	35,213	47,031	381	1,136	1,517
Argentina .....	—	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	1	—	—	—	—	32	—	1,451	1,451	—	47	47
Brazil .....	—	—	—	—	—	—	—	1,392	1,392	—	45	45
Brunei .....	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	17	—	789	119	—	9,246	16,376	230	298	528
Chad .....	—	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	25	—	—	—	—	25	25	—	1	1
Colombia .....	—	—	—	—	—	—	—	1,843	2,813	31	59	91
Denmark .....	—	—	—	—	—	—	—	20	20	—	1	1
Egypt .....	—	—	—	—	—	—	—	252	252	—	8	8
Estonia .....	—	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	1,369	1,369	—	44	44
France .....	—	—	—	—	—	9	—	629	629	—	20	20
Germany .....	—	—	—	—	—	11	—	47	47	—	2	2
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	2,275	2,275	—	73	73
Indonesia .....	—	—	—	—	—	—	—	312	312	—	10	10
Italy .....	—	—	—	—	—	1	—	431	431	—	14	14
Korea, South .....	—	—	1	—	—	15	—	718	718	—	23	23
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	845	845	—	27	27
Malaysia .....	—	—	—	—	—	1	—	465	465	—	15	15
Mexico .....	—	—	—	—	—	—	—	107	107	—	3	3
Netherlands .....	—	—	—	—	—	1	—	2,843	2,843	—	92	92
Norway .....	—	—	—	—	—	—	—	890	1,089	6	29	35
Oman .....	—	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	1,349	1,349	—	44	44
Qatar .....	—	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	3,615	4,017	13	117	130
Spain .....	—	—	—	—	71	—	—	1,731	1,731	—	56	56
Sweden .....	—	—	—	—	—	—	—	24	24	—	1	1
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	1,999	2,594	19	64	84
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	—	1	1	428	0	—	1,335	3,857	82	43	123
<b>Total</b> .....	1	—	44	1	1,288	649	—	36,930	55,528	600	1,191	1,791
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	50	—	1,028	3,575	82	33	115

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	<b>84,444</b>	<b>2,423</b>	<b>280</b>	<b>60</b>	-	-	-	-	<b>120</b>	<b>120</b>
Argentina .....	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-
Canada .....	84,444	2,423	280	60	-	-	-	-	120	120
Chad .....	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	0	0	0	0	-	-	-	-	0	0
<b>Total</b> .....	<b>84,444</b>	<b>2,423</b>	<b>280</b>	<b>60</b>	-	-	-	-	<b>120</b>	<b>120</b>
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	125	-	-	229	-	35	60	324
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	125	-	-	229	-	35	60	324
Chad .....	-	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	0	-	-	0	-	0	0	0
<b>Total</b> .....	-	-	-	125	-	-	229	-	35	60	324
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	—	5	—	—	4	—	13	74	87
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	5	—	—	4	—	13	74	87
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	—	0	—	0	0	0
<b>Total</b> .....	—	5	—	—	4	—	13	74	87
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	<b>90</b>	<b>51</b>	<b>-</b>	<b>31</b>	<b>420</b>	<b>128</b>	<b>-</b>	<b>4,148</b>	<b>88,592</b>	<b>2,724</b>	<b>134</b>	<b>2,858</b>
Argentina .....	-	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	1	-	1	1	-	0	0
Brazil .....	-	-	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-	-	-
Canada .....	90	51	-	30	420	127	-	4,146	88,590	2,724	134	2,858
Chad .....	-	-	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	1	-	-	-	1	1	-	0	0
Syria .....	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-	-	-
Other .....	0	0	-	0	0	0	-	0	0	0	0	0
<b>Total</b> .....	<b>90</b>	<b>51</b>	<b>-</b>	<b>31</b>	<b>420</b>	<b>128</b>	<b>-</b>	<b>4,148</b>	<b>88,592</b>	<b>2,724</b>	<b>134</b>	<b>2,858</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

- = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."



**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>11,116</b>	—	—	<b>3,330</b>	—	—	—	—	—	—
Algeria .....	—	—	—	1,192	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—
Ecuador .....	1,218	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	6,725	—	—	312	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—
Nigeria .....	630	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	2,543	—	—	1,826	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	<b>51,379</b>	—	<b>130</b>	<b>14,994</b>	—	—	—	<b>256</b>	<b>2,832</b>	<b>3,088</b>
Argentina .....	1,979	—	—	—	—	—	—	—	128	128
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	1,700	—	—	—	—	—	—
Brazil .....	3,513	—	—	—	—	—	—	—	1,279	1,279
Brunei .....	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—
Canada .....	18,057	—	—	65	—	—	—	—	—	—
Chad .....	476	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—
Colombia .....	4,818	—	—	200	—	—	—	—	—	—
Denmark .....	—	—	—	20	—	—	—	—	—	—
Egypt .....	—	—	—	2,339	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	33	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	279	—	—	—	—	415	415
Indonesia .....	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	963	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—
Mexico .....	18,095	—	36	—	—	—	—	—	—	—
Netherlands .....	—	—	—	446	—	—	—	—	329	329
Norway .....	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	7,747	—	—	—	—	—	—
Spain .....	—	—	—	16	—	—	—	—	259	259
Sweden .....	—	—	—	66	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	2,095	—	—	—	—	—	—	—	—	—
United Kingdom .....	2,346	—	—	—	—	—	—	256	422	678
Vietnam .....	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	0	—	94	1,120	—	—	—	0	0	0
<b>Total</b> .....	<b>62,495</b>	—	<b>130</b>	<b>18,324</b>	—	—	—	<b>256</b>	<b>2,832</b>	<b>3,088</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>9,268</b>	—	—	<b>2,138</b>	—	—	—	—	—	—

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	<b>44</b>	<b>85</b>	—	<b>54</b>	—	—	—	—	—	<b>706</b>	<b>706</b>
Argentina .....	44	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	396	396
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	85	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	—	—	—	—	—	—	—
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	54	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—	310	310
Spain .....	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	0	—	—	—	—	—	0	0
<b>Total</b> .....	<b>44</b>	<b>85</b>	—	<b>54</b>	—	—	—	—	—	<b>706</b>	<b>706</b>
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	-	832	590	-	748	1,338
Argentina .....	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	19	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	-	148	-	-	-	-
Chad .....	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	460	-	-	460
Denmark .....	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	37	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	400	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	64	-	-	612	612
Netherlands .....	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	13	130	-	136	266
Spain .....	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	-	151	0	-	0	0
<b>Total</b> .....	-	-	-	-	832	590	-	748	1,338
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	—	—	—	—	—	103	—	3,433	14,549	359	111	469
Algeria .....	—	—	—	—	—	—	—	1,192	1,192	—	38	38
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	1,218	39	—	39
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	312	7,037	217	10	227
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	630	20	—	20
Saudi Arabia .....	—	—	—	—	—	—	—	1,826	4,369	82	59	141
United Arab Emirates .....	—	—	—	—	—	103	—	103	103	—	3	3
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	291	8	6	94	—	1,293	—	22,963	74,342	1,657	741	2,398
Argentina .....	—	—	—	—	—	—	—	172	2,151	64	6	69
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	396	396	—	13	13
Bahrain .....	—	—	—	—	—	118	—	118	118	—	4	4
Belgium .....	—	—	—	—	—	2	—	1,702	1,702	—	55	55
Brazil .....	—	—	—	—	—	—	—	1,383	4,896	113	45	158
Brunei .....	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	—	—	—	213	18,270	582	7	589
Chad .....	—	—	—	—	—	—	—	—	476	15	—	15
China .....	—	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	660	5,478	155	21	177
Denmark .....	—	—	—	—	—	—	—	20	20	—	1	1
Egypt .....	—	—	—	—	—	—	—	2,339	2,339	—	75	75
Estonia .....	—	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	33	33	—	1	1
France .....	—	8	—	—	—	4	—	49	49	—	2	2
Germany .....	—	—	—	—	—	12	—	66	66	—	2	2
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	694	694	—	22	22
Indonesia .....	—	—	—	—	—	133	—	133	133	—	4	4
Italy .....	—	—	—	—	—	10	—	973	973	—	31	31
Korea, South .....	—	—	—	—	—	479	—	879	879	—	28	28
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	6	—	—	—	—	6	6	—	0	0
Mexico .....	234	—	—	—	—	—	—	946	19,041	584	31	614
Netherlands .....	—	—	—	—	—	—	—	775	775	—	25	25
Norway .....	—	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	94	—	—	—	94	94	—	3	3
Portugal .....	—	—	—	—	—	10	—	10	10	—	0	0
Qatar .....	—	—	—	—	—	524	—	524	524	—	17	17
Russia .....	—	—	—	—	—	—	—	8,336	8,336	—	269	269
Spain .....	—	—	—	—	—	—	—	275	275	—	9	9
Sweden .....	—	—	—	—	—	—	—	66	66	—	2	2
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	2,095	68	—	68
United Kingdom .....	10	—	—	—	—	—	—	688	3,034	76	22	98
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	47	0	0	0	—	1	—	1,413	1,413	0	46	47
<b>Total</b> .....	291	8	6	94	—	1,396	—	26,396	88,891	2,016	851	2,867
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	745	—	2,883	12,151	299	93	392

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
OPEC .....	PAD District 4									
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Non-OPEC .....	11,131	252	-	-	-	-	-	-	117	117
Canada .....	11,131	252	-	-	-	-	-	-	117	117
Qatar .....	-	-	-	-	-	-	-	-	-	-
Other .....	0	0	-	-	-	-	-	-	0	0
Total .....	11,131	252	-	-	-	-	-	-	117	117
OPEC .....	PAD District 5									
	19,541	-	-	1,422	-	-	-	-	-	-
	-	-	-	708	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	4,416	-	-	507	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	4,118	-	-	-	-	-	-	-	-	-
	614	-	-	-	-	-	-	-	-	-
	1,000	-	-	207	-	-	-	-	-	-
	1,744	-	-	-	-	-	-	-	-	-
	7,144	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	18,779	1,558	-	2,136	-	710	710	-	586	586
	474	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	3,736	-	-	-	-	-	-	-	-	-
	988	-	-	-	-	-	-	-	-	-
	7,295	1,493	-	43	-	38	38	-	-	-
-	-	-	-	-	-	-	-	-	-	
3,403	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-								

See footnotes at end of table.

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
<b>PAD District 4</b>											
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	28	-	-	113	-	-	-	113
Canada .....	-	-	-	28	-	-	113	-	-	-	113
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	0	-	-	0	-	-	-	0
<b>Total</b> .....	-	-	-	28	-	-	113	-	-	-	113
<b>PAD District 5</b>											
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	544	77	546	-	424	-	1	-	425
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	544	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	16	-	-	424	-	1	-	425
China .....	-	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Japan .....	-	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	61	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Peru .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Singapore .....	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Taiwan .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	0	0	546	-	0	-	0	-	0
<b>Total</b> .....	-	-	544	77	546	-	424	-	1	-	425
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	PAD District 4								
OPEC .....	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-
Non-OPEC .....	-	14	-	-	-	-	-	-	-
Canada .....	-	14	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-
Other .....	-	0	-	-	-	-	-	-	-
Total .....	-	14	-	-	-	-	-	-	-
	PAD District 5								
OPEC .....	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-
Non-OPEC .....	-	2	-	4,718	-	-	134	-	134
Argentina .....	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-
Canada .....	-	2	-	-	-	-	134	-	134
China .....	-	-	-	126	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-
Japan .....	-	-	-	765	-	-	-	-	-
Korea, South .....	-	-	-	2,585	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-
Papua New Guinea .....	-	-	-	-	-	-	-	-	-
Peru .....	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-
Singapore .....	-	-	-	20	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-
Taiwan .....	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-
Other .....	-	0	-	1,222	-	-	0	-	0
Total .....	-	2	-	4,718	-	-	134	-	134
Persian Gulf <sup>3</sup> .....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks									Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC .....	-	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC .....	-	-	-	-	9	-	1	534	11,665	359	17	376
Canada .....	-	-	-	-	9	-	1	534	11,665	359	17	376
Qatar .....	-	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	-	0	-	0	0	0	0	0	0
Total .....	-	-	-	-	9	-	1	534	11,665	359	17	376
	PAD District 5											
OPEC .....	-	-	-	-	-	-	-	1,422	20,963	630	46	676
Algeria .....	-	-	-	-	-	-	-	708	708	-	23	23
Angola .....	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	507	4,923	142	16	159
Iran .....	-	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	4,118	133	-	133
Kuwait .....	-	-	-	-	-	-	-	-	614	20	-	20
Libya .....	-	-	-	-	-	-	-	207	1,207	32	7	39
Nigeria .....	-	-	-	-	-	-	-	-	1,744	56	-	56
Saudi Arabia .....	-	-	-	-	-	-	-	-	7,144	230	-	230
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC .....	22	-	62	24	81	29	-	11,654	30,433	606	376	982
Argentina .....	-	-	-	-	-	-	-	-	474	15	-	15
Aruba .....	-	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	544	4,280	121	18	138
Brunei .....	-	-	-	-	-	-	-	-	988	32	-	32
Canada .....	-	-	-	24	81	7	-	2,263	9,558	235	73	308
China .....	-	-	62	-	-	-	-	188	188	-	6	6
Colombia .....	-	-	-	-	-	-	-	-	3,403	110	-	110
Finland .....	-	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-	-
Japan .....	-	-	-	-	-	-	-	765	765	-	25	25
Korea, South .....	-	-	-	-	-	22	-	3,754	3,754	-	121	121
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	1,625	52	-	52
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea .....	-	-	-	-	-	-	-	-	-	-	-	-
Peru .....	-	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-	-
Singapore .....	-	-	-	-	-	-	-	722	722	-	23	23
Sweden .....	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan .....	22	-	-	-	-	-	-	22	22	-	1	1
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-	-
Other .....	0	-	0	0	0	0	-	3,396	4,654	41	109	151
Total .....	22	-	62	24	81	29	-	13,076	51,396	1,236	422	1,658
Persian Gulf <sup>3</sup> .....	-	-	-	-	-	-	-	-	11,876	383	-	383

- = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>58,258</b>	—	—	<b>1,606</b>	—	<b>81</b>	<b>81</b>	—	<b>5,618</b>	<b>5,618</b>
Algeria .....	6,413	—	—	1,201	—	—	—	—	—	—
Angola .....	572	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	5,537	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—
Libya .....	3,574	—	—	—	—	—	—	—	—	—
Nigeria .....	20,744	—	—	360	—	—	—	—	1,119	1,119
Saudi Arabia .....	21,418	—	—	—	—	81	81	—	2,250	2,250
United Arab Emirates .....	—	—	—	—	—	—	—	—	943	943
Venezuela .....	—	—	—	45	—	—	—	—	1,306	1,306
<b>Non-OPEC</b> .....	<b>102,418</b>	<b>9,304</b>	<b>1,694</b>	<b>9,846</b>	—	<b>10,402</b>	<b>10,402</b>	<b>33,880</b>	<b>86,994</b>	<b>120,874</b>
Argentina .....	—	—	—	—	—	—	—	—	52	52
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	166	166	756	3,310	4,066
Brazil .....	546	—	—	288	—	—	—	—	9,533	9,533
Brunei .....	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	503	—	—	—	—	—	—
Canada .....	48,732	8,729	1,694	2,285	—	2,756	2,756	17,721	9,971	27,692
Chad .....	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—
Colombia .....	5,299	—	—	—	—	—	—	—	1,947	1,947
Denmark .....	3,842	—	—	—	—	—	—	9	349	358
Egypt .....	2,221	—	—	—	—	138	138	—	337	337
Estonia .....	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	107	5,252	5,359
France .....	—	—	—	128	—	3,431	3,431	896	526	1,422
Germany .....	—	—	—	222	—	7	7	3	17	20
Guatemala .....	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	164	—	—	—	—	12,090	12,090
Indonesia .....	—	—	—	—	—	—	—	—	566	566
Italy .....	—	—	—	68	—	150	150	88	2,800	2,888
Korea, South .....	—	—	—	—	—	—	—	—	238	238
Latvia .....	—	—	—	—	—	—	—	—	69	69
Lithuania .....	—	—	—	—	—	—	—	—	845	845
Malaysia .....	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	75	75
Netherlands .....	—	—	—	292	—	1,071	1,071	4,955	9,502	14,457
Norway .....	12,730	192	—	—	—	198	198	621	3,291	3,912
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	558	5,828	6,386
Qatar .....	—	—	—	—	—	—	—	—	—	—
Russia .....	11,542	—	—	3,286	—	300	300	31	7,846	7,877
Spain .....	194	—	—	1,568	—	—	—	1	6,256	6,257
Sweden .....	—	191	—	39	—	158	158	35	177	212
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	7,166	—	—	—	—	2,027	2,027	8,091	2,955	11,046
Vietnam .....	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	10,146	192	0	1,003	—	0	0	8	3,162	3,170
<b>Total</b> .....	<b>160,676</b>	<b>9,304</b>	<b>1,694</b>	<b>11,452</b>	—	<b>10,483</b>	<b>10,483</b>	<b>33,880</b>	<b>92,612</b>	<b>126,492</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>21,418</b>	—	—	—	—	<b>81</b>	<b>81</b>	—	<b>3,193</b>	<b>3,193</b>

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	1,706	—	—	—	1,706
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	312	—	—	—	312
Saudi Arabia .....	—	—	—	—	—	—	1,193	—	—	—	1,193
United Arab Emirates .....	—	—	—	—	—	—	200	—	—	—	200
Venezuela .....	—	—	—	—	—	—	1	—	—	—	1
<b>Non-OPEC</b> .....	—	—	—	1,133	—	—	31,564	598	594	481	33,237
Argentina .....	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	501	—	—	—	501
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	143	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	146	—	—	16,501	322	594	481	17,898
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	279	—	—	—	279
Colombia .....	—	—	—	—	—	—	4,593	—	—	—	4,593
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	121	—	—	—	—	—	—	—
Germany .....	—	—	—	666	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	6,477	—	—	—	6,477
Indonesia .....	—	—	—	—	—	—	312	—	—	—	312
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	464	—	—	—	464
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	2,071	—	—	—	2,071
Russia .....	—	—	—	—	—	—	366	276	—	—	642
Spain .....	—	—	—	57	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	0	—	—	0	0	0	0	0
<b>Total</b> .....	—	—	—	1,133	—	—	33,270	598	594	481	34,943
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	3,464	—	—	—	3,464

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	1,373	—	—	—	1,912	1,912
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	6	—	—	—	—	—
Kuwait .....	—	—	—	101	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	20	—	—	—	—	—
Saudi Arabia .....	—	—	—	618	—	—	—	—	—
United Arab Emirates .....	—	—	—	527	—	—	—	20	20
Venezuela .....	—	—	—	101	—	—	—	1,892	1,892
<b>Non-OPEC</b> .....	101	49	—	10,783	2	996	1,864	10,178	13,038
Argentina .....	—	—	—	—	—	939	1,102	—	2,041
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	562	562
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	9	—	—	—	1	1
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	8	—	4,957	2	57	335	3,359	3,751
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	275	—	—	—	—	—
Colombia .....	101	—	—	—	—	—	40	2,587	2,627
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	237	—	—	—	4	4
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	4,821	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	20	269	289
Netherlands .....	—	41	—	—	—	—	—	610	610
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	484	—	—	—	—	—
Russia .....	—	—	—	—	—	—	99	2,386	2,485
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	286	286
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	0	0	0	268	114	382
<b>Total</b> .....	101	49	—	12,156	2	996	1,864	12,090	14,950
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	1,736	—	—	—	20	20

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b>	—	—	—	—	31	547	—	12,874	71,132	275	61	336
Algeria	—	—	—	—	—	410	—	1,611	8,024	30	8	38
Angola	—	—	—	—	—	—	—	—	572	3	—	3
Congo (Brazzaville)	—	—	—	—	—	—	—	—	5,537	26	—	26
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	6	6	—	0	0
Kuwait	—	—	—	—	—	—	—	101	101	—	0	0
Libya	—	—	—	—	—	—	—	—	3,574	17	—	17
Nigeria	—	—	—	—	—	—	—	1,811	22,555	98	9	106
Saudi Arabia	—	—	—	—	—	—	—	4,142	25,560	101	20	121
United Arab Emirates	—	—	—	—	—	137	—	1,827	1,827	—	9	9
Venezuela	—	—	—	—	31	—	—	3,376	3,376	—	16	16
<b>Non-OPEC</b>	8	11	472	22	5,503	1,101	—	217,580	319,998	483	1,026	1,509
Argentina	—	—	—	—	—	14	—	2,107	2,107	—	10	10
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	1,063	1,063	—	5	5
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	1	—	—	—	—	54	—	4,430	4,430	—	21	21
Brazil	—	—	—	—	—	—	—	9,831	10,377	3	46	49
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	503	503	—	2	2
Canada	—	11	266	4	4,197	748	—	75,144	123,876	230	354	584
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	95	—	—	—	—	649	649	—	3	3
Colombia	—	—	—	—	39	—	—	9,307	14,606	25	44	69
Denmark	—	—	—	—	—	—	—	358	4,200	18	2	20
Egypt	—	—	—	—	—	—	—	475	2,696	10	2	13
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	5,359	5,359	—	25	25
France	—	—	—	—	—	56	—	5,158	5,158	—	24	24
Germany	—	—	42	—	—	88	—	1,045	1,045	—	5	5
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	1	—	18,973	18,973	—	89	89
Indonesia	—	—	1	—	—	—	—	879	879	—	4	4
Italy	—	—	—	—	—	7	—	3,113	3,113	—	15	15
Korea, South	—	—	5	—	—	102	—	5,166	5,166	—	24	24
Latvia	—	—	—	—	—	—	—	69	69	—	0	0
Lithuania	—	—	—	—	—	—	—	845	845	—	4	4
Malaysia	—	—	—	—	—	2	—	466	466	—	2	2
Mexico	—	—	—	—	—	—	—	364	364	—	2	2
Netherlands	—	—	—	—	—	4	—	16,475	16,475	—	78	78
Norway	—	—	—	—	—	—	—	4,302	17,032	60	20	80
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	6,386	6,386	—	30	30
Qatar	—	—	—	—	—	—	—	2,555	2,555	—	12	12
Russia	—	—	—	—	—	18	—	14,608	26,150	54	69	123
Spain	—	—	4	—	612	—	—	8,498	8,692	1	40	41
Sweden	—	—	—	2	—	5	—	893	893	—	4	4
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	7	—	—	8	—	—	—	13,280	20,446	34	63	96
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	59	8	655	2	—	5,279	15,425	48	27	75
<b>Total</b>	8	11	472	22	5,534	1,648	—	230,454	391,130	758	1,087	1,845
<b>Persian Gulf<sup>3</sup></b>	—	—	—	—	—	137	—	8,631	30,049	101	41	142

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	<b>545,654</b>	<b>17,721</b>	<b>1,968</b>	<b>315</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>2,211</b>	<b>2,211</b>
Argentina .....	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-
Brazil .....	475	-	-	-	-	-	-	-	-	-
Brunei .....	417	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-
Canada .....	542,907	17,721	1,968	315	-	1	1	-	2,211	2,211
Chad .....	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-
Mexico .....	1,855	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	0	0	0	0	-	0	0	-	0	0
<b>Total</b> .....	<b>545,654</b>	<b>17,721</b>	<b>1,968</b>	<b>315</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>2,211</b>	<b>2,211</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

See footnotes at end of table.

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	653	-	-	1,424	-	337	214	1,975
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	653	-	-	1,424	-	337	214	1,975
Chad .....	-	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	0	-	-	0	-	0	0	0
<b>Total</b> .....	-	-	-	653	-	-	1,424	-	337	214	1,975
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	—	23	—	—	40	—	156	352	508
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	23	—	—	40	—	156	352	508
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	—	0	—	0	0	0
<b>Total</b> .....	—	23	—	—	40	—	156	352	508
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	<b>581</b>	<b>528</b>	<b>34</b>	<b>197</b>	<b>1,733</b>	<b>822</b>	<b>—</b>	<b>29,310</b>	<b>574,964</b>	<b>2,574</b>	<b>138</b>	<b>2,712</b>
Argentina .....	—	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	1	—	1	1	—	0	0
Brazil .....	—	—	—	—	—	—	—	—	475	2	—	2
Brunei .....	—	—	—	—	—	—	—	—	417	2	—	2
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—	—
Canada .....	581	528	34	180	1,733	817	—	29,288	572,195	2,561	138	2,699
Chad .....	—	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	1,855	9	—	9
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	4	—	4	4	—	0	0
Russia .....	—	—	—	—	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	17	—	—	—	17	17	—	0	0
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	0	0	—	0	0	0	0	0
<b>Total</b> .....	<b>581</b>	<b>528</b>	<b>34</b>	<b>197</b>	<b>1,733</b>	<b>822</b>	<b>—</b>	<b>29,310</b>	<b>574,964</b>	<b>2,574</b>	<b>138</b>	<b>2,712</b>
<b>Persian Gulf</b> <sup>3</sup> .....	—	—	—	—	—	4	—	4	4	—	0	0

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>129,382</b>	—	—	<b>18,136</b>	—	—	—	—	—	—
Algeria .....	—	—	—	10,390	—	—	—	—	—	—
Angola .....	1,939	—	—	651	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	173	—	—	—	—	—	—
Ecuador .....	3,817	—	—	33	—	—	—	—	—	—
Equatorial Guinea .....	663	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	49,194	—	—	312	—	—	—	—	—	—
Kuwait .....	5,610	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	916	—	—	—	—	—	—
Nigeria .....	5,541	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	33,714	—	—	3,327	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	2,334	—	—	—	—	—	—
Venezuela .....	28,904	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	<b>325,400</b>	—	<b>706</b>	<b>79,965</b>	—	<b>512</b>	<b>512</b>	<b>581</b>	<b>16,170</b>	<b>16,751</b>
Argentina .....	2,568	—	—	—	—	—	—	—	527	527
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	11,411	—	—	—	—	311	311
Brazil .....	15,247	—	—	783	—	—	—	—	2,248	2,248
Brunei .....	—	—	—	—	—	—	—	—	—	—
Cameroon .....	1,339	—	—	290	—	—	—	—	—	—
Canada .....	108,844	—	—	1,023	—	—	—	—	9	9
Chad .....	1,901	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	74	74
Colombia .....	50,158	—	—	246	—	—	—	—	200	200
Denmark .....	—	—	—	20	—	—	—	—	70	70
Egypt .....	1,625	—	—	6,717	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	33	—	227	227	—	312	312
France .....	—	—	65	310	—	—	—	—	111	111
Germany .....	—	—	—	966	—	1	1	—	375	375
Guatemala .....	1,107	—	—	—	—	—	—	—	—	—
India .....	—	—	—	745	—	—	—	—	3,628	3,628
Indonesia .....	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	1,643	—	—	—	—	1,212	1,212
Korea, South .....	—	—	—	—	—	—	—	—	303	303
Latvia .....	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	12	—	—	—	—	325	325
Malaysia .....	—	—	—	—	—	—	—	—	—	—
Mexico .....	120,082	—	123	—	—	—	—	—	995	995
Netherlands .....	486	—	—	2,479	—	—	—	—	876	876
Norway .....	—	—	—	3,188	—	—	—	—	322	322
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	916	916
Qatar .....	—	—	—	—	—	—	—	—	—	—
Russia .....	6,738	—	—	42,899	—	—	—	—	317	317
Spain .....	—	—	—	865	—	—	—	—	553	553
Sweden .....	—	—	—	729	—	—	—	—	325	325
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	7,404	—	—	—	—	—	—	—	350	350
United Kingdom .....	7,765	—	—	797	—	284	284	581	767	1,348
Vietnam .....	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	136	—	518	4,809	—	0	0	0	1,044	1,044
<b>Total</b> .....	<b>454,782</b>	—	<b>706</b>	<b>98,101</b>	—	<b>512</b>	<b>512</b>	<b>581</b>	<b>16,170</b>	<b>16,751</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>88,518</b>	—	—	<b>5,973</b>	—	—	—	—	—	—

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	293	—	—	156	449
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	156	156
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	293	—	—	—	293
<b>Non-OPEC</b> .....	170	524	—	167	—	—	223	—	261	880	1,364
Argentina .....	170	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	396	396
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	524	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	—	—	223	—	—	—	223
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	54	—	—	—	—	106	—	106
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	125	—	125
Netherlands .....	—	—	—	—	—	—	—	—	30	—	30
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—	484	484
Spain .....	—	—	—	113	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	0	—	—	0	—	0	0	0
<b>Total</b> .....	170	524	—	167	—	—	516	—	261	1,036	1,813
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	18	—	—	—	1,200	1,200
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	18	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	679	679
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	521	521
<b>Non-OPEC</b> .....	—	59	—	12	3,257	2,181	578	5,836	8,595
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	245	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	6	521	—	—	294	294
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	560	—	473	1,033
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	37	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	197	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	1,334	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	6	146	749	—	2,940	3,689
Netherlands .....	—	59	—	—	—	—	—	235	235
Norway .....	—	—	—	—	—	—	—	244	244
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	13	872	—	1,650	2,522
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	0	764	0	578	0	578
<b>Total</b> .....	—	59	—	30	3,257	2,181	578	7,036	9,795
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	18	—	—	—	679	679

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b>	—	—	—	—	—	517	—	20,320	149,702	610	96	706
Algeria	—	—	—	—	—	—	—	10,390	10,390	—	49	49
Angola	—	—	—	—	—	—	—	651	2,590	9	3	12
Congo (Brazzaville)	—	—	—	—	—	—	—	173	173	—	1	1
Ecuador	—	—	—	—	—	—	—	189	4,006	18	1	19
Equatorial Guinea	—	—	—	—	—	—	—	—	663	3	—	3
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	330	49,524	232	2	234
Kuwait	—	—	—	—	—	—	—	—	5,610	26	—	26
Libya	—	—	—	—	—	—	—	916	916	—	4	4
Nigeria	—	—	—	—	—	—	—	—	5,541	26	—	26
Saudi Arabia	—	—	—	—	—	—	—	4,006	37,720	159	19	178
United Arab Emirates	—	—	—	—	—	517	—	2,851	2,851	—	13	13
Venezuela	—	—	—	—	—	—	—	814	29,718	136	4	140
<b>Non-OPEC</b>	2,036	147	171	944	—	6,379	—	121,786	447,186	1,535	574	2,109
Argentina	—	—	—	619	—	10	—	1,326	3,894	12	6	18
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	396	396	—	2	2
Bahrain	—	—	—	—	—	552	—	552	552	—	3	3
Belgium	—	—	—	—	—	27	—	11,749	11,749	—	55	55
Brazil	—	9	—	—	—	—	—	3,809	19,056	72	18	90
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	290	1,629	6	1	8
Canada	—	—	—	—	—	—	—	2,076	110,920	513	10	523
Chad	—	—	—	—	—	—	—	—	1,901	9	—	9
China	—	—	48	—	—	—	—	122	122	—	1	1
Colombia	—	—	—	—	—	—	—	1,479	51,637	237	7	244
Denmark	—	—	—	—	—	—	—	90	90	—	0	0
Egypt	—	—	—	—	—	—	—	6,717	8,342	8	32	39
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	587	587	—	3	3
France	—	135	—	—	—	48	—	706	706	—	3	3
Germany	—	—	—	—	—	47	—	1,549	1,549	—	7	7
Guatemala	—	—	—	—	—	—	—	—	1,107	5	—	5
India	—	—	—	—	—	—	—	4,570	4,570	—	22	22
Indonesia	—	—	—	—	—	586	—	586	586	—	3	3
Italy	34	—	—	—	—	117	—	3,008	3,008	—	14	14
Korea, South	—	—	—	—	—	2,417	—	4,054	4,054	—	19	19
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	337	337	—	2	2
Malaysia	—	—	60	—	—	—	—	60	60	—	0	0
Mexico	1,362	—	—	—	—	—	—	6,446	126,528	566	30	597
Netherlands	—	—	—	—	—	26	—	3,717	4,203	2	18	20
Norway	—	—	—	—	—	—	—	3,754	3,754	—	18	18
Oman	—	—	—	298	—	—	—	298	298	—	1	1
Portugal	—	—	—	—	—	10	—	926	926	—	4	4
Qatar	—	—	—	—	—	2,370	—	2,370	2,370	—	11	11
Russia	—	—	—	—	—	—	—	46,235	52,973	32	218	250
Spain	—	—	1	—	—	—	—	1,532	1,532	—	7	7
Sweden	—	—	—	—	—	—	—	1,054	1,054	—	5	5
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	350	7,754	35	2	37
United Kingdom	222	—	—	16	—	97	—	2,764	10,529	37	13	50
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	418	3	62	11	—	57	—	8,277	8,413	1	39	39
<b>Total</b>	2,036	147	171	944	—	6,896	—	142,106	596,888	2,145	670	2,816
<b>Persian Gulf<sup>3</sup></b>	—	—	—	—	—	3,439	—	10,109	98,627	418	48	465

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components			
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total	
OPEC .....	PAD District 4										
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
Non-OPEC .....	64,644	2,475	-	-	-	-	-	-	872	872	
Canada .....	64,644	2,475	-	-	-	-	-	-	872	872	
Qatar .....	-	-	-	-	-	-	-	-	-	-	
Other .....	0	0	-	-	-	-	-	-	0	0	
Total .....	64,644	2,475	-	-	-	-	-	-	872	872	
OPEC .....	PAD District 5										
	148,468	-	-	5,214	-	-	-	-	-	-	
	-	-	-	4,412	-	-	-	-	-	-	
	3,808	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	31,154	-	-	507	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	25,229	-	-	-	-	-	-	-	-	-	
	6,877	-	-	-	-	-	-	-	-	-	
	7,877	-	-	207	-	-	-	-	-	-	
	8,003	-	-	-	-	-	-	-	-	-	
	63,063	-	-	-	-	-	-	-	-	-	
	-	-	-	88	-	-	-	-	-	-	
	497	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	Non-OPEC .....	116,548	11,524	-	11,975	-	3,407	3,407	2,255	9,110	11,365
	Argentina .....	5,560	254	-	-	-	-	-	-	-	-
	Aruba .....	-	-	-	-	-	-	-	-	-	-
	Australia .....	-	-	-	398	-	-	-	-	-	-
	Brazil .....	10,160	-	-	84	-	-	-	-	-	-
	Brunei .....	3,505	-	-	-	-	-	-	-	-	-
Canada .....	51,502	10,977	-	1,332	-	555	555	-	717	717	
China .....	-	-	-	-	-	-	-	-	72	72	
Colombia .....	20,957	-	-	430	-	-	-	-	600	600	
Finland .....	-	-	-	-	-	-	-	-	164	164	
Germany .....	-	-	-	-	-	-	-	-	328	328	
Indonesia .....	-	-	-	-	-	-	-	-	-	-	
Japan .....	-	-	-	885	-	610	610	-	1,772	1,772	
Korea, South .....	-	-	-	109	-	1,936	1,936	-	987	987	
Malaysia .....	-	-	-	289	-	-	-	-	-	-	
Mexico .....	8,534	-	-	-	-	-	-	-	-	-	
Netherlands .....	-	-	-	-	-	148	148	1,942	131	2,073	
Oman .....	-	-	-	-	-	-	-	-	-	-	
Papua New Guinea .....	-	-	-	-	-	-	-	-	-	-	
Peru .....	-	-	-	189	-	-	-	-	-	-	
Qatar .....	-	-	-	-	-	-	-	-	-	-	
Singapore .....	-	-	-	298	-	-	-	-	431	431	
Sweden .....	-	-	-	737	-	-	-	-	-	-	
Taiwan .....	-	-	-	-	-	-	-	-	327	327	
United Kingdom .....	-	-	-	349	-	71	71	-	1,358	1,358	
Vietnam .....	-	-	-	-	-	-	-	-	-	-	
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	
Other .....	16,330	293	-	6,875	-	87	87	313	2,223	2,536	
Total .....	265,016	11,524	-	17,189	-	3,407	3,407	2,255	9,110	11,365	
Persian Gulf <sup>3</sup> .....	95,169	-	-	88	-	-	-	-	-	-	

See footnotes at end of table.



**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
<b>PAD District 4</b>											
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	112	-	-	717	-	-	-	717
Canada .....	-	-	-	112	-	-	717	-	-	-	717
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	0	-	-	0	-	-	-	0
<b>Total</b> .....	-	-	-	112	-	-	717	-	-	-	717
<b>PAD District 5</b>											
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	1,682	353	3,505	-	2,702	-	7	-	2,709
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	1,682	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	63	-	-	2,184	-	7	-	2,191
China .....	-	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Japan .....	-	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	261	-	-	518	-	-	-	518
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Peru .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Singapore .....	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Taiwan .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	0	29	3,505	-	0	-	0	-	0
<b>Total</b> .....	-	-	1,682	353	3,505	-	2,702	-	7	-	2,709
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin			Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	Kerosene	Finished Aviation Gasoline							
	PAD District 4								
OPEC .....	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	16	—	—	—	—	—	97	97
Canada .....	—	16	—	—	—	—	—	97	97
Qatar .....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	—	—	—	—	0	0
Total .....	—	16	—	—	—	—	—	97	97
	PAD District 5								
OPEC .....	—	—	—	—	—	—	—	150	150
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	150	150
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	26	—	22,883	—	338	1,499	2,385	4,222
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Canada .....	—	16	—	24	—	—	1,499	371	1,870
China .....	—	—	—	126	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Japan .....	—	—	—	3,454	—	—	—	—	—
Korea, South .....	—	10	—	15,138	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	1,236	1,236
Netherlands .....	—	—	—	—	—	—	—	80	80
Oman .....	—	—	—	—	—	—	—	—	—
Papua New Guinea .....	—	—	—	—	—	—	—	—	—
Peru .....	—	—	—	—	—	—	—	505	505
Qatar .....	—	—	—	—	—	—	—	—	—
Singapore .....	—	—	—	854	—	338	—	—	338
Sweden .....	—	—	—	—	—	—	—	—	—
Taiwan .....	—	—	—	190	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	3,097	—	0	0	193	193
Total .....	—	26	—	22,883	—	338	1,499	2,535	4,372
Persian Gulf <sup>3</sup> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2019**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC .....	-	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC .....	-	-	-	-	199	1	7	4,496	69,140	305	21	326
Canada .....	-	-	-	-	199	1	7	4,496	69,140	305	21	326
Qatar .....	-	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	-	0	0	0	0	0	0	0	0
Total .....	-	-	-	-	199	1	7	4,496	69,140	305	21	326
	PAD District 5											
OPEC .....	-	-	-	-	-	-	-	5,364	153,832	700	25	726
Algeria .....	-	-	-	-	-	-	-	4,412	4,412	-	21	21
Angola .....	-	-	-	-	-	-	-	-	3,808	18	-	18
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	657	31,811	147	3	150
Iran .....	-	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	25,229	119	-	119
Kuwait .....	-	-	-	-	-	-	-	-	6,877	32	-	32
Libya .....	-	-	-	-	-	-	-	207	8,084	37	1	38
Nigeria .....	-	-	-	-	-	-	-	-	8,003	38	-	38
Saudi Arabia .....	-	-	-	-	-	-	-	-	63,063	297	-	297
United Arab Emirates .....	-	-	-	-	-	-	-	88	88	-	0	0
Venezuela .....	-	-	-	-	-	-	-	-	497	2	-	2
Non-OPEC .....	235	-	371	166	850	525	-	75,798	192,346	550	358	907
Argentina .....	-	-	-	-	-	-	-	254	5,814	26	1	27
Aruba .....	-	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	398	398	-	2	2
Brazil .....	-	-	-	-	-	-	-	1,766	11,926	48	8	56
Brunei .....	-	-	-	-	-	-	-	-	3,505	17	-	17
Canada .....	-	-	-	166	655	55	-	18,621	70,123	243	88	331
China .....	-	-	322	-	-	-	-	520	520	-	2	2
Colombia .....	-	-	-	-	-	-	-	1,030	21,987	99	5	104
Finland .....	-	-	-	-	-	-	-	164	164	-	1	1
Germany .....	-	-	-	-	-	-	-	328	328	-	2	2
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-	-
Japan .....	-	-	47	-	-	-	-	6,768	6,768	-	32	32
Korea, South .....	-	-	-	-	130	68	-	19,157	19,157	-	90	90
Malaysia .....	-	-	2	-	65	-	-	356	356	-	2	2
Mexico .....	-	-	-	-	-	-	-	1,236	9,770	40	6	46
Netherlands .....	-	-	-	-	-	-	-	2,301	2,301	-	11	11
Oman .....	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea .....	-	-	-	-	-	-	-	-	-	-	-	-
Peru .....	-	-	-	-	-	-	-	694	694	-	3	3
Qatar .....	-	-	-	-	-	-	-	-	-	-	-	-
Singapore .....	-	-	-	-	-	-	-	5,426	5,426	-	26	26
Sweden .....	-	-	-	-	-	-	-	737	737	-	3	3
Taiwan .....	235	-	-	-	-	-	-	752	752	-	4	4
United Kingdom .....	-	-	-	-	-	-	-	1,778	1,778	-	8	8
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-	-
Other .....	0	-	0	0	0	402	-	13,512	29,842	77	64	140
Total .....	235	-	371	166	850	525	-	81,162	346,178	1,250	383	1,633
Persian Gulf <sup>3</sup> .....	-	-	-	-	-	-	-	88	95,257	449	0	449

- = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 49. Exports of Crude Oil and Petroleum Products by PAD District, July 2019**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>1,362</b>	<b>5,439</b>	<b>75,762</b>	<b>—</b>	<b>950</b>	<b>83,512</b>	<b>2,694</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>8,197</b>	<b>7,509</b>	<b>39,450</b>	<b>97</b>	<b>1,878</b>	<b>57,131</b>	<b>1,843</b>
Natural Gas Liquids .....	8,197	7,509	39,450	97	1,878	57,131	1,843
Ethane .....	2,004	3,250	3,089	0	0	8,344	269
Propane .....	4,261	128	30,002	—	1,109	35,500	1,145
Normal Butane .....	1,866	52	6,089	22	764	8,792	284
Isobutane .....	1	0	229	—	0	231	7
Natural Gasoline .....	65	4,079	41	75	4	4,265	138
Refinery Olefins .....	—	—	—	—	—	—	—
Ethylene .....	—	—	—	—	—	—	—
Propylene .....	—	—	—	—	—	—	—
Normal Butylene .....	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—
<b>Other Liquids</b> .....	<b>142</b>	<b>2,382</b>	<b>12,210</b>	<b>2</b>	<b>1,114</b>	<b>15,850</b>	<b>511</b>
Hydrogen/Oxygenates/Renewables/ .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	86	986	4,106	2	355	5,535	179
Hydrogen .....	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol) .....	0	2	2,277	—	1	2,280	74
Methyl Tertiary Butyl Ether (MTBE) .....	0	0	1,618	—	0	1,618	52
Other Oxygenates .....	0	2	659	—	1	662	21
Renewable Fuels (including Fuel Ethanol) ...	85	984	1,829	2	354	3,255	105
Fuel Ethanol .....	84	755	1,824	—	199	2,863	92
Biodiesel .....	1	229	5	2	155	392	13
Other Renewable Diesel .....	—	—	—	—	—	—	—
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	—	—	—	—
Unfinished Oils .....	36	1,244	5,004	0	649	6,932	224
Naphthas and Lighter .....	17	1,237	4,863	0	642	6,759	218
Kerosene and Light Gas Oils .....	19	7	141	—	7	174	6
Heavy Gas Oils .....	—	—	—	—	—	—	—
Residuum .....	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC) .....	20	152	3,101	—	111	3,383	109
Reformulated .....	1	—	20	—	1	22	1
Conventional .....	19	152	3,080	—	110	3,361	108
Aviation Gasoline Blend. Comp. ....	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b> .....	<b>2,089</b>	<b>1,329</b>	<b>80,812</b>	<b>39</b>	<b>9,867</b>	<b>94,136</b>	<b>3,037</b>
Finished Motor Gasoline .....	28	151	19,328	1	1,452	20,960	676
Reformulated .....	—	—	—	—	—	—	—
Conventional .....	28	151	19,328	1	1,452	20,960	676
Finished Aviation Gasoline .....	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel .....	506	47	5,029	—	902	6,483	209
Kerosene .....	—	—	—	—	—	—	—
Distillate Fuel Oil .....	766	293	37,612	15	3,262	41,949	1,353
15 ppm sulfur and under .....	588	88	31,458	15	2,267	34,415	1,110
Greater than 15 ppm to 500 ppm sulfur .....	178	—	2,596	—	590	3,364	109
Greater than 500 ppm sulfur .....	—	206	3,559	—	405	4,170	135
Residual Fuel Oil .....	44	130	3,483	10	737	4,404	142
Naphtha for Petro. Feed. Use .....	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use .....	—	—	—	—	—	—	—
Special Naphthas .....	—	—	—	—	—	—	—
Lubricants .....	276	226	2,598	8	230	3,339	108
Waxes .....	55	47	17	0	4	123	4
Petroleum Coke .....	274	291	12,388	—	3,228	16,182	522
Asphalt and Road Oil .....	126	141	320	6	51	643	21
Miscellaneous Products .....	13	1	37	0	0	52	2
<b>Total</b> .....	<b>11,789</b>	<b>16,659</b>	<b>208,235</b>	<b>139</b>	<b>13,809</b>	<b>250,630</b>	<b>8,085</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-July 2019**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>2,104</b>	<b>33,744</b>	<b>560,519</b>	<b>—</b>	<b>3,851</b>	<b>600,219</b>	<b>2,831</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>40,376</b>	<b>50,187</b>	<b>264,392</b>	<b>1,644</b>	<b>10,170</b>	<b>366,768</b>	<b>1,730</b>
Natural Gas Liquids .....	40,376	50,187	264,392	1,644	10,170	366,768	1,730
Ethane .....	6,501	18,810	31,789	0	3	57,103	269
Propane .....	24,489	683	191,143	3	6,285	221,673	1,046
Normal Butane .....	8,407	1,307	41,261	37	3,799	54,554	257
Isobutane .....	7	5	1,067	—	5	1,079	5
Natural Gasoline .....	1,010	29,391	229	1,604	126	32,360	153
Refinery Olefins .....	—	—	—	—	—	—	—
Ethylene .....	—	—	—	—	—	—	—
Propylene .....	—	—	—	—	—	—	—
Normal Butylene .....	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—
<b>Other Liquids</b> .....	<b>1,342</b>	<b>16,969</b>	<b>85,128</b>	<b>23</b>	<b>3,902</b>	<b>107,365</b>	<b>506</b>
Hydrogen/Oxygenates/Renewables/ .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	1,014	4,873	28,648	4	1,900	36,438	172
Hydrogen .....	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol) .....	6	11	13,559	0	4	13,580	64
Methyl Tertiary Butyl Ether (MTBE) .....	0	0	8,111	—	0	8,112	38
Other Oxygenates .....	6	11	5,448	0	4	5,469	26
Renewable Fuels (including Fuel Ethanol) ...	1,008	4,862	15,089	4	1,896	22,858	108
Fuel Ethanol .....	917	3,847	14,826	—	1,382	20,973	99
Biodiesel .....	91	1,015	262	4	514	1,886	9
Other Renewable Diesel .....	—	—	—	—	—	—	—
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	—	—	—	—
Unfinished Oils .....	181	10,879	36,602	19	1,078	48,759	230
Naphthas and Lighter .....	87	10,827	35,591	1	1,036	47,541	224
Kerosene and Light Gas Oils .....	95	53	1,011	17	42	1,218	6
Heavy Gas Oils .....	—	—	—	—	—	—	—
Residuum .....	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC) .....	147	1,217	19,878	0	925	22,167	105
Reformulated .....	9	—	104	—	9	121	1
Conventional .....	139	1,217	19,774	0	916	22,046	104
Aviation Gasoline Blend. Comp. ....	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b> .....	<b>27,941</b>	<b>8,074</b>	<b>574,431</b>	<b>145</b>	<b>72,883</b>	<b>683,473</b>	<b>3,224</b>
Finished Motor Gasoline .....	2,551	988	153,939	8	7,721	165,207	779
Reformulated .....	—	—	—	—	—	—	—
Conventional .....	2,551	988	153,939	8	7,721	165,207	779
Finished Aviation Gasoline .....	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel .....	3,798	356	34,313	—	5,094	43,561	205
Kerosene .....	280	4	269	—	10	563	3
Distillate Fuel Oil .....	9,243	1,519	240,935	15	26,483	278,196	1,312
15 ppm sulfur and under .....	6,361	91	196,866	15	18,168	221,501	1,045
Greater than 15 ppm to 500 ppm sulfur .....	2,357	600	19,947	—	3,992	26,896	127
Greater than 500 ppm sulfur .....	525	828	24,123	—	4,323	29,799	141
Residual Fuel Oil .....	6,501	1,073	37,068	53	6,492	51,187	241
Naphtha for Petro. Feed. Use .....	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use .....	—	—	—	—	—	—	—
Special Naphthas .....	—	—	—	—	—	—	—
Lubricants .....	1,535	1,320	18,758	50	1,987	23,650	112
Waxes .....	398	239	170	1	36	845	4
Petroleum Coke .....	2,935	1,802	85,097	1	24,618	114,453	540
Asphalt and Road Oil .....	607	754	3,631	13	440	5,445	26
Miscellaneous Products .....	92	18	251	3	2	366	2
<b>Total</b> .....	<b>71,763</b>	<b>108,975</b>	<b>1,484,470</b>	<b>1,812</b>	<b>90,806</b>	<b>1,757,825</b>	<b>8,292</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, July 2019**  
(Thousand Barrels)

Destination	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina .....	—	—	—	484	—	—	—	—	—	—
Australia .....	1,006	581	—	0	—	1,207	1,207	1	—	1
Bahamas .....	—	21	—	—	—	122	122	0	0	0
Bahrain .....	—	—	—	—	—	0	0	—	—	—
Belgium .....	127	0	—	3	—	—	—	—	—	—
Belize .....	—	—	—	—	—	—	—	—	—	—
Brazil .....	1,769	1,711	—	1,178	—	1,289	1,289	—	461	461
Canada .....	13,028	7,673	—	1,259	—	431	431	—	570	570
Cayman Islands .....	—	—	—	—	—	28	28	0	—	0
Chile .....	2,968	1,102	—	9	—	0	0	—	—	—
China .....	7,105	688	—	4	—	—	—	—	—	—
Colombia .....	451	20	—	1,640	—	328	328	—	—	—
Costa Rica .....	—	149	—	2	—	385	385	—	—	—
Denmark .....	615	—	—	—	—	1	1	0	—	0
Dominican Republic .....	720	1,501	—	0	—	317	317	0	—	0
Ecuador .....	—	1,538	—	0	—	535	535	—	0	0
Egypt .....	—	0	—	0	—	—	—	—	—	—
El Salvador .....	—	237	—	1	—	296	296	—	—	—
Finland .....	—	—	—	0	—	0	0	—	—	—
France .....	565	1,088	—	32	—	—	—	—	—	—
Germany .....	—	0	—	10	—	—	—	—	—	—
Ghana .....	—	460	—	—	—	0	0	—	—	—
Gibraltar .....	—	525	—	—	—	—	—	—	—	—
Greece .....	650	—	—	—	—	—	—	—	—	—
Guatemala .....	—	303	—	9	—	1,245	1,245	—	342	342
Honduras .....	—	985	—	1	—	357	357	—	—	—
Hong Kong .....	—	—	—	0	—	—	—	—	—	—
India .....	4,314	1,584	—	0	—	—	—	—	—	—
Indonesia .....	—	—	—	0	—	—	—	—	—	—
Ireland .....	1,209	—	—	—	—	—	—	—	—	—
Israel .....	706	—	—	—	—	—	—	—	—	—
Italy .....	3,382	—	—	0	—	—	—	—	—	—
Jamaica .....	—	49	—	1	—	4	4	0	0	0
Japan .....	—	16,552	—	497	—	1	1	0	—	0
Korea, South .....	16,461	4,757	—	654	—	1	1	0	0	0
Lebanon .....	—	—	—	—	—	—	—	—	—	—
Mexico .....	533	4,953	—	419	—	12,920	12,920	17	1,839	1,857
Montenegro .....	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	1,475	—	—	—	—	—	—	—	—
Mozambique .....	—	—	—	—	—	—	—	—	—	—
Netherlands .....	6,114	2,075	—	338	—	1	1	—	146	146
New Zealand .....	—	0	—	—	—	—	—	—	—	—
Nicaragua .....	395	—	—	1	—	68	68	—	—	—
Nigeria .....	—	349	—	0	—	—	—	—	—	—
Norway .....	699	658	—	60	—	—	—	—	—	—
Pakistan .....	—	—	—	—	—	—	—	—	—	—
Panama .....	—	0	—	1	—	248	248	—	0	0
Peru .....	807	253	—	6	—	615	615	—	—	—
Philippines .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	416	—	—	—	—	—	—	—	—
Puerto Rico .....	—	8	—	5	—	1	1	—	0	0
Romania .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	0	—	1	—	—	—	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore .....	1,473	0	—	12	—	135	135	—	0	0
South Africa .....	—	0	—	—	—	9	9	—	—	—
Spain .....	2,505	554	—	—	—	—	—	—	1	1
Switzerland .....	—	—	—	0	—	—	—	—	—	—
Taiwan .....	4,720	583	—	301	—	0	0	—	—	—
Thailand .....	2,808	0	—	0	—	—	—	—	—	—
Trinidad and Tobago .....	—	1	—	0	—	117	117	—	—	—
Turkey .....	—	570	—	0	—	—	—	0	—	0
United Arab Emirates .....	776	0	—	0	—	8	8	—	—	—
United Kingdom .....	5,730	1,190	—	1	—	0	0	—	—	—
Venezuela .....	—	0	—	0	—	4	4	0	0	0
Other .....	1,876	2,522	—	3	—	287	287	4	2	5
<b>Total .....</b>	<b>83,512</b>	<b>57,131</b>	<b>—</b>	<b>6,932</b>	<b>—</b>	<b>20,960</b>	<b>20,960</b>	<b>22</b>	<b>3,361</b>	<b>3,383</b>

See footnotes at end of table.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, July 2019**  
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina .....	—	—	0	—	—	—	833	—	—	—	833
Australia .....	—	0	1	—	—	—	0	—	—	—	0
Bahamas .....	—	—	0	—	—	—	1,108	—	199	—	1,307
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	7	0	0	—	—	—	—	—	—	—	—
Belize .....	—	—	—	—	—	—	0	72	—	—	72
Brazil .....	0	0	377	—	—	—	5,748	215	—	—	5,963
Canada .....	—	0	830	386	—	—	517	564	250	—	1,331
Cayman Islands .....	—	—	—	—	—	—	99	—	—	—	99
Chile .....	298	—	0	—	—	—	3,868	—	—	—	3,868
China .....	0	0	0	—	—	—	0	—	—	—	0
Colombia .....	—	—	222	—	—	—	1,084	—	—	—	1,084
Costa Rica .....	—	0	0	—	—	—	439	—	—	—	439
Denmark .....	—	—	—	—	—	—	414	—	—	—	414
Dominican Republic .....	—	—	2	—	—	—	234	—	296	—	530
Ecuador .....	—	—	—	—	—	—	485	471	—	—	956
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
El Salvador .....	—	—	—	—	—	—	1	352	—	—	353
Finland .....	—	—	—	—	—	—	58	—	—	—	58
France .....	—	0	—	—	—	—	954	—	—	—	954
Germany .....	—	0	0	0	—	—	—	—	—	—	—
Ghana .....	—	—	—	—	—	—	—	—	—	—	—
Gibraltar .....	—	—	—	—	—	—	87	—	901	—	988
Greece .....	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	0	—	—	—	757	198	255	—	1,209
Honduras .....	—	—	—	—	—	—	248	222	276	—	746
Hong Kong .....	—	—	—	—	—	—	246	—	—	—	246
India .....	169	0	0	—	—	—	2	—	—	—	2
Indonesia .....	—	—	0	—	—	—	—	—	—	—	—
Ireland .....	—	—	—	—	—	—	—	—	—	—	—
Israel .....	—	0	0	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	292	—	—	—	292
Jamaica .....	—	—	80	—	—	—	—	—	75	—	75
Japan .....	—	660	1	—	—	—	1	—	—	—	1
Korea, South .....	—	0	234	—	—	—	1	—	—	—	1
Lebanon .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	1,143	1	56	3	—	—	8,142	409	148	—	8,699
Montenegro .....	—	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	—	—	2	—	—	1,249	—	—	—	1,249
Mozambique .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	0	270	—	—	—	1,188	—	—	—	1,188
New Zealand .....	—	—	—	—	—	—	—	—	—	—	—
Nicaragua .....	—	—	—	—	—	—	208	—	—	—	208
Nigeria .....	—	—	87	—	—	—	0	—	—	—	0
Norway .....	—	—	—	—	—	—	75	—	—	—	75
Pakistan .....	—	—	—	—	—	—	—	—	—	—	—
Panama .....	—	—	—	—	—	—	334	134	361	—	829
Peru .....	—	—	—	—	—	—	2,157	—	—	—	2,157
Philippines .....	—	0	217	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico .....	—	0	1	—	—	—	1	—	—	—	1
Romania .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	62	—	—	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—	—
Singapore .....	—	0	26	0	—	—	0	147	—	—	148
South Africa .....	—	—	—	—	—	—	0	—	—	—	0
Spain .....	—	—	—	—	—	—	900	300	292	—	1,492
Switzerland .....	—	—	1	—	—	—	320	—	—	—	320
Taiwan .....	0	0	1	—	—	—	—	—	—	—	—
Thailand .....	—	0	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	57	280	311	—	648
Turkey .....	—	—	22	—	—	—	0	—	—	—	0
United Arab Emirates .....	—	—	3	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	72	—	—	—	966	—	—	—	966
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	1	1	298	1	—	—	1,342	—	806	—	2,148
<b>Total .....</b>	<b>1,618</b>	<b>662</b>	<b>2,863</b>	<b>392</b>	<b>—</b>	<b>—</b>	<b>34,415</b>	<b>3,364</b>	<b>4,170</b>	<b>—</b>	<b>41,949</b>

See footnotes at end of table.



**Table 51. Exports of Crude Oil and Petroleum Products by Destination, July 2019**  
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina .....	—	—	—	119	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	72	—	122	—	—
Bahrain .....	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—
Belize .....	—	—	—	18	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—
Canada .....	—	—	—	1,364	—	387	—	—
Cayman Islands .....	—	—	—	25	—	0	—	—
Chile .....	—	—	—	2	—	0	—	—
China .....	—	—	—	0	—	1	—	—
Colombia .....	—	—	—	—	—	—	—	—
Costa Rica .....	—	—	—	160	—	—	—	—
Denmark .....	—	—	—	99	—	—	—	—
Dominican Republic .....	—	—	—	222	—	205	—	—
Ecuador .....	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—
El Salvador .....	—	—	—	22	—	—	—	—
Finland .....	—	—	—	453	—	—	—	—
France .....	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—
Ghana .....	—	—	—	—	—	—	—	—
Gibraltar .....	—	—	—	—	—	280	—	—
Greece .....	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	206	—	—	—	—
Honduras .....	—	—	—	41	—	—	—	—
Hong Kong .....	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—
Ireland .....	—	—	—	—	—	—	—	—
Israel .....	—	—	—	180	—	154	—	—
Italy .....	—	—	—	—	—	—	—	—
Jamaica .....	—	—	—	125	—	205	—	—
Japan .....	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	0	—	232	—	—
Lebanon .....	—	—	—	—	—	377	—	—
Mexico .....	—	—	—	1,848	—	674	—	—
Montenegro .....	—	—	—	—	—	—	—	—
Morocco .....	—	—	—	—	—	—	—	—
Mozambique .....	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	319	—	520	—	—
New Zealand .....	—	—	—	—	—	—	—	—
Nicaragua .....	—	—	—	—	—	93	—	—
Nigeria .....	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—
Pakistan .....	—	—	—	—	—	—	—	—
Panama .....	—	—	—	508	—	419	—	—
Peru .....	—	—	—	0	—	—	—	—
Philippines .....	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—
Puerto Rico .....	—	—	—	—	—	—	—	—
Romania .....	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore .....	—	—	—	0	—	675	—	—
South Africa .....	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—
Switzerland .....	—	—	—	—	—	—	—	—
Taiwan .....	—	—	—	—	—	0	—	—
Thailand .....	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	73	—	—	—	—
Turkey .....	—	—	—	0	—	—	—	—
United Arab Emirates .....	—	—	—	0	—	—	—	—
United Kingdom .....	—	—	—	315	—	—	—	—
Venezuela .....	—	—	—	0	—	0	—	—
Other .....	—	—	—	312	—	60	—	—
<b>Total .....</b>	—	—	—	<b>6,483</b>	—	<b>4,404</b>	—	—

See footnotes at end of table.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, July 2019**  
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina .....	0	182	—	41	0	1,659	1,659	—	54	54
Australia .....	1	275	0	7	0	2,074	3,080	32	67	99
Bahamas .....	—	—	2	2	—	1,649	1,649	—	53	53
Bahrain .....	0	—	—	1	—	1	1	—	0	0
Belgium .....	0	514	0	299	1	824	951	4	27	31
Belize .....	—	—	—	1	—	91	91	—	3	3
Brazil .....	0	1,185	—	350	1	12,515	14,285	57	404	461
Canada .....	94	756	280	301	4	15,667	28,695	420	505	926
Cayman Islands .....	—	—	1	1	—	154	154	—	5	5
Chile .....	0	—	3	59	0	5,342	8,311	96	172	268
China .....	3	1,062	1	17	1	1,778	8,883	229	57	287
Colombia .....	0	—	0	77	0	3,372	3,823	15	109	123
Costa Rica .....	0	—	3	12	—	1,150	1,150	—	37	37
Denmark .....	0	327	—	0	—	841	1,456	20	27	47
Dominican Republic .....	0	157	94	23	0	3,053	3,773	23	98	122
Ecuador .....	0	193	0	16	—	3,238	3,238	—	104	104
Egypt .....	—	—	—	1	—	1	1	—	0	0
El Salvador .....	—	—	—	6	—	914	914	—	29	29
Finland .....	—	—	—	0	—	512	512	—	17	17
France .....	0	275	—	1	—	2,350	2,915	18	76	94
Germany .....	2	14	0	2	—	28	28	—	1	1
Ghana .....	0	—	—	0	—	460	460	—	15	15
Gibraltar .....	—	—	—	—	—	1,793	1,793	—	58	58
Greece .....	—	—	—	0	—	0	650	21	0	21
Guatemala .....	—	—	—	18	—	3,332	3,332	—	107	107
Honduras .....	0	248	—	12	—	2,389	2,389	—	77	77
Hong Kong .....	0	—	0	1	0	248	248	—	8	8
India .....	2	2,041	0	45	—	3,843	8,157	139	124	263
Indonesia .....	0	0	1	4	—	5	5	—	0	0
Ireland .....	0	165	—	0	—	165	1,374	39	5	44
Israel .....	—	137	—	1	0	472	1,178	23	15	38
Italy .....	—	361	—	0	—	654	4,036	109	21	130
Jamaica .....	—	—	0	139	0	678	678	—	22	22
Japan .....	1	1,732	1	19	3	19,466	19,466	—	628	628
Korea, South .....	0	421	—	2	0	6,303	22,764	531	203	734
Lebanon .....	—	116	—	1	—	494	494	—	16	16
Mexico .....	14	2,758	247	1,200	37	36,830	37,363	17	1,188	1,205
Montenegro .....	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	594	—	—	—	3,320	3,320	—	107	107
Mozambique .....	—	50	—	—	—	50	50	—	2	2
Netherlands .....	4	247	1	86	0	5,195	11,309	197	168	365
New Zealand .....	0	83	—	2	—	85	85	—	3	3
Nicaragua .....	—	—	—	4	—	374	769	13	12	25
Nigeria .....	0	—	—	124	—	560	560	—	18	18
Norway .....	—	86	—	0	—	879	1,578	23	28	51
Pakistan .....	—	—	—	0	0	0	0	—	0	0
Panama .....	0	—	—	18	—	2,023	2,023	—	65	65
Peru .....	0	0	0	69	0	3,101	3,908	26	100	126
Philippines .....	0	—	—	1	0	218	218	—	7	7
Portugal .....	—	208	—	0	—	624	624	—	20	20
Puerto Rico .....	0	—	1	15	—	32	32	—	1	1
Romania .....	—	61	—	0	—	61	61	—	2	2
Saudi Arabia .....	0	3	—	4	—	70	70	—	2	2
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore .....	0	—	0	2	0	1,000	2,473	48	32	80
South Africa .....	0	57	—	95	—	160	160	—	5	5
Spain .....	0	443	—	2	—	2,492	4,997	81	80	161
Switzerland .....	—	—	—	0	—	321	321	—	10	10
Taiwan .....	0	0	0	11	0	897	5,616	152	29	181
Thailand .....	0	0	0	2	0	4	2,812	91	0	91
Trinidad and Tobago .....	—	—	—	4	—	843	843	—	27	27
Turkey .....	0	613	—	31	—	1,237	1,237	—	40	40
United Arab Emirates .....	0	110	0	54	—	176	951	25	6	31
United Kingdom .....	0	50	0	3	0	2,597	8,327	185	84	269
Venezuela .....	—	1	—	8	0	14	14	—	0	0
Other .....	2	657	8	145	5	6,439	8,316	60	211	269
<b>Total .....</b>	<b>123</b>	<b>16,182</b>	<b>643</b>	<b>3,339</b>	<b>52</b>	<b>167,117</b>	<b>250,630</b>	<b>2,694</b>	<b>5,391</b>	<b>8,085</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-July 2019**  
(Thousand Barrels)

Destination	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina .....	13	1	—	1,985	—	963	963	—	—	—
Australia .....	3,565	2,313	—	5	—	2,184	2,184	2	—	2
Bahamas .....	—	240	—	0	—	731	731	1	1	2
Bahrain .....	—	—	—	0	—	0	0	—	—	—
Belgium .....	267	785	—	384	—	—	—	—	0	0
Belize .....	—	—	—	—	—	194	194	—	116	116
Brazil .....	11,723	12,468	—	6,639	—	10,610	10,610	—	2,495	2,495
Canada .....	95,904	53,139	—	11,015	—	4,919	4,919	—	5,659	5,659
Cayman Islands .....	—	47	—	—	—	427	427	1	0	1
Chile .....	8,605	6,186	—	56	—	1,332	1,332	—	—	—
China .....	32,623	2,554	—	1,470	—	6	6	—	—	—
Colombia .....	4,722	215	—	9,593	—	4,882	4,882	0	478	478
Costa Rica .....	—	853	—	310	—	2,838	2,838	—	—	—
Denmark .....	4,204	0	—	—	—	1	1	0	0	0
Dominican Republic .....	3,133	9,676	—	1,252	—	2,533	2,533	0	62	62
Ecuador .....	—	8,456	—	34	—	5,363	5,363	—	1,063	1,063
Egypt .....	—	2,509	—	0	—	—	—	—	1	1
El Salvador .....	—	1,631	—	2	—	2,449	2,449	0	0	1
Finland .....	—	—	—	0	—	1	1	—	—	—
France .....	8,935	4,684	—	167	—	2	2	—	0	0
Germany .....	5,658	112	—	49	—	2	2	—	0	0
Ghana .....	—	700	—	0	—	0	0	—	—	—
Gibraltar .....	—	525	—	—	—	318	318	—	—	—
Greece .....	2,169	0	—	—	—	0	0	—	—	—
Guatemala .....	—	2,920	—	25	—	7,742	7,742	0	1,388	1,388
Honduras .....	—	3,541	—	4	—	3,758	3,758	—	542	542
Hong Kong .....	—	551	—	0	—	—	—	—	—	—
India .....	56,674	21,326	—	28	—	0	0	1	—	1
Indonesia .....	630	13,756	—	18	—	—	—	—	—	—
Ireland .....	8,531	—	—	0	—	—	—	—	—	—
Israel .....	1,436	2	—	7	—	9	9	—	—	—
Italy .....	25,859	234	—	0	—	474	474	—	—	—
Jamaica .....	335	259	—	2	—	1,532	1,532	0	2	2
Japan .....	12,014	82,223	—	3,003	—	318	318	5	0	5
Korea, South .....	87,283	24,720	—	1,577	—	189	189	1	5	6
Lebanon .....	—	—	—	0	—	—	—	—	—	—
Mexico .....	533	30,159	—	2,355	—	93,511	93,511	100	9,581	9,681
Montenegro .....	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	8,265	—	0	—	—	—	—	—	—
Mozambique .....	—	—	—	—	—	—	—	—	—	—
Netherlands .....	53,764	12,479	—	3,749	—	1,152	1,152	0	146	146
New Zealand .....	—	2	—	0	—	0	0	—	—	—
Nicaragua .....	2,415	—	—	1	—	893	893	—	—	—
Nigeria .....	—	786	—	8	—	476	476	—	—	—
Norway .....	7,083	5,248	—	182	—	1	1	—	—	—
Pakistan .....	—	—	—	—	—	—	—	—	—	—
Panama .....	10,312	1	—	4	—	4,188	4,188	—	61	61
Peru .....	3,505	969	—	17	—	4,136	4,136	—	147	147
Philippines .....	—	1,037	—	2	—	—	—	—	—	—
Portugal .....	—	2,025	—	—	—	—	—	—	—	—
Puerto Rico .....	—	77	—	11	—	13	13	—	0	0
Romania .....	—	0	—	0	—	—	—	—	—	—
Saudi Arabia .....	—	5	—	6	—	—	—	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore .....	15,461	1,966	—	368	—	455	455	—	50	50
South Africa .....	649	363	—	0	—	508	508	0	—	0
Spain .....	8,359	8,933	—	0	—	480	480	—	1	1
Switzerland .....	—	289	—	0	—	85	85	—	—	—
Taiwan .....	39,147	6,516	—	1,411	—	2	2	—	0	0
Thailand .....	21,570	0	—	5	—	—	—	—	—	—
Trinidad and Tobago .....	—	129	—	0	—	853	853	—	240	240
Turkey .....	—	4,055	—	0	—	—	—	1	—	1
United Arab Emirates .....	8,709	1	—	1	—	11	11	0	—	0
United Kingdom .....	44,202	11,418	—	2	—	6	6	—	0	0
Venezuela .....	—	270	—	2,040	—	1,485	1,485	5	2	6
Other .....	10,227	15,149	—	972	—	3,175	3,175	4	6	10
<b>Total .....</b>	<b>600,219</b>	<b>366,768</b>	<b>—</b>	<b>48,759</b>	<b>—</b>	<b>165,207</b>	<b>165,207</b>	<b>121</b>	<b>22,046</b>	<b>22,167</b>

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-July 2019**  
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina .....	—	—	0	0	—	—	6,321	310	386	—	7,017
Australia .....	0	0	1	—	—	—	1	—	—	—	1
Bahamas .....	—	1	1	—	—	—	5,077	150	1,907	—	7,134
Bahrain .....	—	—	0	—	—	—	—	—	—	—	—
Belgium .....	42	0	1	—	—	—	—	—	245	—	245
Belize .....	—	—	—	—	—	—	140	328	41	—	509
Brazil .....	0	0	5,613	0	—	—	33,941	1,458	2,439	—	37,838
Canada .....	—	3	4,246	1,667	—	—	1,133	2,916	978	—	5,028
Cayman Islands .....	—	—	—	0	—	—	690	—	—	—	690
Chile .....	1,566	—	6	—	—	—	20,707	—	462	—	21,169
China .....	0	2	1	—	—	—	7	299	—	—	306
Colombia .....	—	—	1,116	—	—	—	8,472	—	—	—	8,472
Costa Rica .....	24	0	2	—	—	—	4,473	—	1	—	4,474
Denmark .....	—	—	—	—	—	—	414	—	—	—	414
Dominican Republic .....	—	—	6	—	—	—	2,092	1,300	1,639	—	5,030
Ecuador .....	—	0	0	—	—	—	3,912	2,643	260	—	6,814
Egypt .....	—	—	0	—	—	—	0	—	—	—	0
El Salvador .....	—	—	—	—	—	—	1,524	2,097	—	—	3,621
Finland .....	—	—	0	—	—	—	58	—	—	—	58
France .....	—	1	63	—	—	—	7,929	902	1	—	8,832
Germany .....	0	0	0	6	—	—	1	—	—	—	1
Ghana .....	—	—	—	—	—	—	2	—	—	—	2
Gibraltar .....	—	—	—	—	—	—	2,510	275	4,633	—	7,418
Greece .....	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	0	—	—	—	3,745	4,330	791	—	8,865
Honduras .....	—	0	—	—	—	—	1,414	1,443	1,363	—	4,220
Hong Kong .....	—	0	0	0	—	—	246	—	—	—	246
India .....	170	0	2,760	1	—	—	30	—	—	—	30
Indonesia .....	59	—	0	—	—	—	—	—	—	—	—
Ireland .....	—	0	0	—	—	—	254	—	—	—	254
Israel .....	—	0	1	—	—	—	0	—	—	—	0
Italy .....	—	—	1	—	—	—	698	—	—	—	698
Jamaica .....	—	0	361	—	—	—	782	71	641	—	1,493
Japan .....	—	5,448	89	—	—	—	4	24	—	—	28
Korea, South .....	155	1	1,404	—	—	—	720	—	—	—	720
Lebanon .....	—	—	0	—	—	—	0	—	—	—	0
Mexico .....	5,508	4	473	13	—	—	59,673	997	568	—	61,237
Montenegro .....	—	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	—	—	9	—	—	4,483	77	—	—	4,560
Mozambique .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	2	608	152	—	—	7,849	826	2,503	—	11,178
New Zealand .....	—	—	—	—	—	—	0	—	—	—	0
Nicaragua .....	—	—	—	—	—	—	377	953	210	—	1,540
Nigeria .....	—	—	261	—	—	—	0	—	—	—	0
Norway .....	0	—	50	—	—	—	411	—	—	—	411
Pakistan .....	—	—	—	—	—	—	—	—	—	—	—
Panama .....	—	—	0	—	—	—	5,895	946	2,940	—	9,781
Peru .....	—	0	651	30	—	—	13,383	—	—	—	13,383
Philippines .....	—	0	1,169	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico .....	—	2	6	—	—	—	4	71	—	—	75
Romania .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	1	266	—	—	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—	—
Singapore .....	0	2	53	1	—	—	139	197	2,275	—	2,611
South Africa .....	—	—	0	—	—	—	1	—	—	—	1
Spain .....	—	—	270	—	—	—	4,505	548	434	—	5,486
Switzerland .....	—	—	231	6	—	—	320	—	4	—	325
Taiwan .....	0	0	2	—	—	—	2	9	—	—	11
Thailand .....	—	0	0	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	0	—	—	—	1,271	1,338	789	—	3,398
Turkey .....	—	—	22	—	—	—	1	—	—	—	1
United Arab Emirates .....	—	—	255	—	—	—	0	—	—	—	0
United Kingdom .....	—	0	197	—	—	—	8,403	—	—	—	8,403
Venezuela .....	259	—	—	—	—	—	276	—	—	—	276
Other .....	329	2	787	1	—	—	7,211	2,388	4,289	—	13,892
<b>Total .....</b>	<b>8,112</b>	<b>5,469</b>	<b>20,973</b>	<b>1,886</b>	<b>—</b>	<b>—</b>	<b>221,501</b>	<b>26,896</b>	<b>29,799</b>	<b>—</b>	<b>278,196</b>

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-July 2019**  
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina .....	—	—	—	582	—	0	—	—
Australia .....	—	—	—	—	—	1	—	—
Bahamas .....	—	—	—	433	—	2,502	—	—
Bahrain .....	—	—	—	0	—	—	—	—
Belgium .....	—	—	—	—	—	0	—	—
Belize .....	—	—	—	90	—	—	—	—
Brazil .....	0	—	—	502	—	320	—	—
Canada .....	338	—	—	9,719	—	5,565	—	—
Cayman Islands .....	1	—	—	186	—	0	—	—
Chile .....	3	—	—	2,072	—	1	—	—
China .....	0	—	—	0	—	3	—	—
Colombia .....	0	—	—	177	—	1	—	—
Costa Rica .....	11	—	—	1,282	—	1	—	—
Denmark .....	—	—	—	99	—	—	—	—
Dominican Republic .....	1	—	—	1,907	—	892	—	—
Ecuador .....	0	—	—	8	—	1,921	—	—
Egypt .....	—	—	—	—	—	—	—	—
El Salvador .....	0	—	—	170	—	0	—	—
Finland .....	—	—	—	453	—	0	—	—
France .....	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	0	—	—
Ghana .....	—	—	—	—	—	345	—	—
Gibraltar .....	—	—	—	—	—	1,829	—	—
Greece .....	—	—	—	—	—	—	—	—
Guatemala .....	30	—	—	1,325	—	355	—	—
Honduras .....	11	—	—	400	—	1,472	—	—
Hong Kong .....	0	—	—	—	—	—	—	—
India .....	—	—	—	0	—	66	—	—
Indonesia .....	—	—	—	—	—	—	—	—
Ireland .....	—	—	—	—	—	—	—	—
Israel .....	1	—	—	846	—	154	—	—
Italy .....	—	—	—	—	—	—	—	—
Jamaica .....	0	—	—	921	—	3,649	—	—
Japan .....	0	—	—	0	—	64	—	—
Korea, South .....	0	—	—	0	—	232	—	—
Lebanon .....	—	—	—	0	—	3,058	—	—
Mexico .....	145	—	—	11,283	—	11,494	—	—
Montenegro .....	—	—	—	—	—	—	—	—
Morocco .....	—	—	—	329	—	—	—	—
Mozambique .....	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	319	—	6,312	—	—
New Zealand .....	0	—	—	—	—	—	—	—
Nicaragua .....	0	—	—	32	—	93	—	—
Nigeria .....	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—
Pakistan .....	0	—	—	—	—	—	—	—
Panama .....	1	—	—	3,546	—	4,727	—	—
Peru .....	1	—	—	1,052	—	1	—	—
Philippines .....	—	—	—	0	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—
Puerto Rico .....	0	—	—	1	—	1	—	—
Romania .....	—	—	—	—	—	—	—	—
Saudi Arabia .....	0	—	—	3	—	1	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore .....	0	—	—	0	—	3,737	—	—
South Africa .....	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—
Switzerland .....	—	—	—	—	—	—	—	—
Taiwan .....	0	—	—	0	—	1	—	—
Thailand .....	—	—	—	—	—	0	—	—
Trinidad and Tobago .....	0	—	—	1,073	—	—	—	—
Turkey .....	1	—	—	0	—	—	—	—
United Arab Emirates .....	1	—	—	0	—	0	—	—
United Kingdom .....	0	—	—	961	—	735	—	—
Venezuela .....	—	—	—	18	—	1	—	—
Other .....	18	—	—	3,772	—	1,653	—	—
<b>Total .....</b>	<b>563</b>	<b>—</b>	<b>—</b>	<b>43,561</b>	<b>—</b>	<b>51,187</b>	<b>—</b>	<b>—</b>

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-July 2019**  
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina .....	4	264	2	270	0	11,089	11,102	0	52	52
Australia .....	4	1,438	1	130	3	6,082	9,647	17	29	46
Bahamas .....	0	—	17	22	0	11,083	11,083	—	52	52
Bahrain .....	0	—	—	2	—	2	2	—	0	0
Belgium .....	0	2,740	1	2,910	7	7,114	7,381	1	34	35
Belize .....	—	—	—	8	0	919	919	—	4	4
Brazil .....	5	9,001	—	2,826	4	88,320	100,043	55	417	472
Canada .....	590	4,580	1,121	1,828	51	109,467	205,371	452	516	969
Cayman Islands .....	—	—	5	8	—	1,364	1,364	—	6	6
Chile .....	3	1	271	552	0	33,218	41,823	41	157	197
China .....	15	7,865	7	134	6	12,371	44,994	154	58	212
Colombia .....	1	238	3	679	2	25,856	30,578	22	122	144
Costa Rica .....	1	187	164	100	0	10,247	10,247	—	48	48
Denmark .....	0	672	—	0	—	1,187	5,391	20	6	25
Dominican Republic .....	2	1,347	666	164	1	23,539	26,672	15	111	126
Ecuador .....	0	1,106	1	483	0	25,251	25,251	—	119	119
Egypt .....	—	851	286	90	—	3,738	3,738	—	18	18
El Salvador .....	0	186	0	143	—	8,203	8,203	—	39	39
Finland .....	0	293	0	5	—	810	810	—	4	4
France .....	1	1,519	—	412	—	15,682	24,616	42	74	116
Germany .....	9	289	4	21	0	493	6,151	27	2	29
Ghana .....	0	—	0	2	—	1,049	1,049	—	5	5
Gibraltar .....	—	—	—	—	—	10,091	10,091	—	48	48
Greece .....	—	678	—	2	—	680	2,849	10	3	13
Guatemala .....	1	2,111	0	140	—	24,902	24,902	—	117	117
Honduras .....	0	1,221	152	97	—	15,419	15,419	—	73	73
Hong Kong .....	1	—	0	12	1	812	812	—	4	4
India .....	9	20,132	5	579	1	45,106	101,779	267	213	480
Indonesia .....	0	0	8	115	0	13,957	14,587	3	66	69
Ireland .....	0	901	—	0	0	1,156	9,687	40	5	46
Israel .....	0	762	0	98	0	1,881	3,316	7	9	16
Italy .....	1	3,234	0	29	—	4,671	30,530	122	22	144
Jamaica .....	0	—	1	180	1	8,401	8,736	2	40	41
Japan .....	33	13,066	6	81	24	104,389	116,404	57	492	549
Korea, South .....	1	1,193	3	19	1	30,221	117,504	412	143	554
Lebanon .....	—	632	—	5	—	3,695	3,695	—	17	17
Mexico .....	120	11,651	2,201	7,701	249	247,787	248,319	3	1,169	1,171
Montenegro .....	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	2,720	1	0	—	15,884	15,884	—	75	75
Mozambique .....	—	521	—	—	—	521	521	—	2	2
Netherlands .....	17	2,538	11	479	1	39,144	92,908	254	185	438
New Zealand .....	0	341	0	6	—	351	351	—	2	2
Nicaragua .....	—	—	—	33	—	2,592	5,007	11	12	24
Nigeria .....	0	—	33	724	—	2,288	2,288	—	11	11
Norway .....	0	684	—	3	—	6,579	13,662	33	31	64
Pakistan .....	1	0	—	1	0	2	2	—	0	0
Panama .....	0	271	174	140	0	22,895	33,206	49	108	157
Peru .....	0	368	0	513	1	21,268	24,774	17	100	117
Philippines .....	0	303	0	12	1	2,525	2,525	—	12	12
Portugal .....	0	604	—	0	—	2,630	2,630	—	12	12
Puerto Rico .....	0	0	26	93	—	306	306	—	1	1
Romania .....	0	1,052	—	1	0	1,053	1,053	—	5	5
Saudi Arabia .....	0	306	0	34	0	622	622	—	3	3
Serbia (Excludes Kosovo) ..	—	—	0	0	—	0	0	—	—	—
Singapore .....	1	193	149	77	0	9,663	25,124	73	46	119
South Africa .....	0	433	0	387	—	1,692	2,341	3	8	11
Spain .....	2	2,590	0	14	0	17,775	26,134	39	84	123
Switzerland .....	0	—	—	0	—	937	937	—	4	4
Taiwan .....	9	0	2	42	1	7,998	47,145	185	38	222
Thailand .....	1	122	2	23	1	155	21,725	102	1	102
Trinidad and Tobago .....	0	0	0	62	0	5,756	5,756	—	27	27
Turkey .....	0	5,378	0	100	—	9,558	9,558	—	45	45
United Arab Emirates .....	0	882	4	393	0	1,549	10,258	41	7	48
United Kingdom .....	2	685	1	15	0	22,426	66,628	208	106	314
Venezuela .....	—	30	—	38	0	4,423	4,423	—	21	21
Other .....	11	6,274	117	613	10	46,762	56,992	47	220	273
<b>Total .....</b>	<b>845</b>	<b>114,453</b>	<b>5,445</b>	<b>23,650</b>	<b>366</b>	<b>1,157,606</b>	<b>1,757,825</b>	<b>2,831</b>	<b>5,460</b>	<b>8,292</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, July 2019**  
(Thousand Barrels per Day)

Country of Origin	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>1,183</b>	<b>-61</b>	<b>-</b>	<b>153</b>	<b>-</b>	<b>-18</b>	<b>-18</b>	<b>0</b>	<b>24</b>	<b>24</b>
Algeria .....	-	-	-	61	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	29	-	-	-	-	-	-	-	-	-
Ecuador .....	182	-50	-	16	-	-17	-17	-	0	0
Equatorial Guinea .....	16	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	350	-	-	10	-	-	-	-	-	-
Kuwait .....	20	-	-	0	-	-	-	-	-	-
Libya .....	32	-	-	7	-	-	-	-	-	-
Nigeria .....	184	-11	-	0	-	-	-	-	9	9
Saudi Arabia .....	395	0	-	59	-	-	-	-	0	0
United Arab Emirates .....	-25	0	-	0	-	0	0	-	15	15
Venezuela .....	-	0	-	0	-	0	0	0	0	0
<b>Non-OPEC</b> .....	<b>3,059</b>	<b>-1,624</b>	<b>21</b>	<b>374</b>	<b>-</b>	<b>-614</b>	<b>-614</b>	<b>201</b>	<b>588</b>	<b>789</b>
Argentina .....	79	-	-	-16	-	-	-	-	4	4
Aruba .....	-	-	-	0	-	-2	-2	-	-	-
Australia .....	-32	-19	-	0	-	-39	-39	0	-	0
Bahamas .....	-	-1	-	-	-	-4	-4	0	0	0
Bahrain .....	-	-	-	-	-	0	0	-	-	-
Belgium .....	-4	0	-	55	-	-	-	18	32	50
Brazil .....	177	-55	-	-38	-	-42	-42	-	71	71
Brunei .....	32	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-
Canada .....	3,711	-92	17	-23	-	0	0	66	34	101
Chad .....	15	-	-	-	-	-	-	-	-	-
China .....	-229	-22	-	0	-	-	-	-	-	-
Colombia .....	282	-1	-	-46	-	-11	-11	-	18	18
Denmark .....	-20	-	-	1	-	0	0	0	1	1
Dominican Republic .....	-23	-46	-	0	-	-10	-10	0	-	0
Estonia .....	-	-	-	-	-	0	0	-	-	-
Finland .....	-	-	-	1	-	0	0	-	44	44
France .....	-18	-35	-	-1	-	-	-	20	-	20
Germany .....	-	0	-	0	-	-	-	-	-	-
Guatemala .....	-	-10	-	0	-	-40	-40	-	-11	-11
Honduras .....	-	-32	-	0	-	-12	-12	-	-	-
India .....	-139	-51	-	9	-	-	-	-	87	87
Indonesia .....	-	-	-	0	-	-	-	-	-	-
Italy .....	-109	-	-	43	-	-	-	-	14	14
Japan .....	-	-534	-	-16	-	0	0	0	2	2
Korea, South .....	-531	-153	-	-18	-	22	22	0	14	14
Latvia .....	-	-	-	-	-	0	0	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	27	27
Malaysia .....	-17	-	-	0	-	-	-	-	-	-
Mexico .....	619	-160	1	-14	-	-417	-417	-1	-59	-60
Netherlands .....	-197	-67	-	3	-	0	0	34	63	97
Norway .....	-16	-21	-	-2	-	-	-	12	17	29
Oman .....	-	-	-	0	-	-	-	-	0	0
Panama .....	-	0	-	0	-	-8	-8	-	0	0
Portugal .....	-	-13	-	-	-	-	-	-	44	44
Puerto Rico .....	-	0	-	0	-	0	0	-	0	0
Qatar .....	-	-	-	-	-	0	0	-	-	-
Russia .....	54	0	-	316	-	-	-	-	84	84
Spain .....	-81	-18	-	7	-	-	-	-	55	55
Sweden .....	-	-43	-	2	-	-	-	-	1	1
Trinidad and Tobago .....	68	0	-	0	-	-4	-4	-	-	-
United Kingdom .....	-90	-38	-	0	-	10	10	51	25	77
Vietnam .....	-	-	-	0	-	-	-	-	0	0
Virgin Islands, U.S. ....	-	-17	-	-	-	0	0	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	-472	-196	3	111	-	-57	-57	1	21	20
<b>Total</b> .....	<b>4,241</b>	<b>-1,685</b>	<b>21</b>	<b>527</b>	<b>-</b>	<b>-631</b>	<b>-631</b>	<b>201</b>	<b>612</b>	<b>813</b>
<b>Persian Gulf<sup>2</sup></b> .....	<b>739</b>	<b>0</b>	<b>-</b>	<b>69</b>	<b>-</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>15</b>	<b>15</b>

See footnotes at end of table.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, July 2019**  
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
<b>OPEC</b>	-	-	-5	-	-	-	-16	-15	0	-	-31
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-16	-15	-	-	-31
Equatorial Guinea	-	-	-	-	-	-	-	-	0	-	0
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	0	-	-	-	0
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-3	-	-	-	0	-	-	-	0
Saudi Arabia	-	-	-2	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	0	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b>	-51	-19	-70	-2	18	-	-965	-92	-133	40	-1,150
Argentina	1	-	0	-	-	-	-27	-	-	-	-27
Aruba	-	-	-	-	-	-	-1	-	-	-	-1
Australia	-	0	0	-	-	-	0	-	-	-	0
Bahamas	-	-	0	-	-	-	-36	-	-6	13	-29
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	0	0	0	-	-	-	-	-	-	-	-
Brazil	0	3	5	-	-	-	-185	-7	-	-	-192
Brunei	-	-	-	-	-	-	0	-	-	-	0
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-27	-7	-	-	61	-17	-7	17	55
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	0	-	-	-	0
Colombia	-	-	-7	-	-	-	-8	-	-	-	-8
Denmark	-	-	-	-	-	-	-13	-	-	-	-13
Dominican Republic	-	-	0	-	-	-	-8	-	-10	-	-17
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-2	-	-	-	-2
France	-	0	-	-	-	-	-31	-	-	-	-31
Germany	-	0	0	3	-	-	-	-	-	-	-
Guatemala	-	-	0	-	-	-	-24	-6	-8	-	-39
Honduras	-	-	-	-	-	-	-8	-7	-9	-	-24
India	-5	0	0	-	-	-	0	-	-	-	0
Indonesia	-	-	0	-	-	-	10	-	-	-	10
Italy	-	-	-	-	-	-	-9	-	-	-	-9
Japan	-	-21	0	-	-	-	0	-	-	-	0
Korea, South	-	0	-8	2	-	-	0	-	-	-	0
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-	-	-	-	15	-	-	-	15
Mexico	-37	0	-2	0	-	-	-263	-13	-5	-	-281
Netherlands	-	0	-9	-	-	-	-38	-	-	-	-38
Norway	-	-	-	-	-	-	-2	-	-	-	-2
Oman	-	-	-10	-	-	-	0	-	-	-	0
Panama	-	-	-	-	-	-	-11	-4	-12	-	-27
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	0	-	-	-	0
Qatar	-	-	0	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	10	10
Spain	-	-	-	-	-	-	-29	-10	-9	-	-48
Sweden	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-2	-9	-10	-	-21
United Kingdom	-	-	-2	-	-	-	-31	-	-	-	-31
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-10	-	-10
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-10	-1	-10	0	18	-	-323	-19	-47	0	-390
<b>Total</b>	<b>-51</b>	<b>-19</b>	<b>-75</b>	<b>-2</b>	<b>18</b>	<b>-</b>	<b>-980</b>	<b>-107</b>	<b>-133</b>	<b>40</b>	<b>-1,181</b>
<b>Persian Gulf<sup>2</sup></b>	<b>-</b>	<b>-</b>	<b>-2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>

See footnotes at end of table.



**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, July 2019**  
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
<b>OPEC</b> .....	-	-	-	17	-	0	-	-
Algeria .....	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	17	-	-	-	-
Venezuela .....	-	-	-	0	-	0	-	-
<b>Non-OPEC</b> .....	-	1	-	-12	27	-40	13	2
Argentina .....	-	-	-	-4	-	-	-	-
Aruba .....	-	-	-	-3	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-2	-	-4	-	-
Bahrain .....	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	0	-
Brazil .....	-	-	-	-	1	-	-	-
Brunei .....	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-
Canada .....	-	1	-	-18	5	1	3	2
Chad .....	-	-	-	-	-	-	-	-
China .....	-	-	-	4	-	0	-	-
Colombia .....	-	-	-	-	-	30	-	-
Denmark .....	-	-	-	-3	-	-	-	-
Dominican Republic .....	-	-	-	-7	-	-7	-	-
Estonia .....	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-15	-	-	-	-
France .....	-	-	-	-	1	-	-	0
Germany .....	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-7	-	-	-	-
Honduras .....	-	-	-	-1	-	-	-	-
India .....	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-
Japan .....	-	-	-	25	4	-	1	-
Korea, South .....	-	-	-	102	13	-7	-	-
Latvia .....	-	-	-	0	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-60	2	1	8	-
Netherlands .....	-	1	-	-10	-	-17	-	-
Norway .....	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-
Panama .....	-	-	-	-6	-	-14	-	-
Portugal .....	-	-	-	-	-	-	-	-
Puerto Rico .....	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	0	27	-	-
Spain .....	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-2	-	-	-	-
United Kingdom .....	-	-	-	-10	-	-	0	-
Vietnam .....	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	0	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-
Other .....	-	-1	-	5	1	-50	1	0
<b>Total</b> .....	-	1	-	5	27	-40	13	2
<b>Persian Gulf<sup>2</sup></b> .....	-	-	-	17	-	-	-	-

See footnotes at end of table.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, July 2019**  
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
<b>OPEC</b>	<b>0</b>	<b>-10</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>81</b>	<b>1,264</b>
Algeria	—	—	—	13	—	75	75
Angola	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	29
Ecuador	0	-6	0	-1	—	-88	94
Equatorial Guinea	—	—	—	0	—	0	16
Gabon	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—
Iraq	—	—	0	0	—	10	360
Kuwait	—	—	0	0	—	0	20
Libya	—	—	—	0	—	7	39
Nigeria	0	—	—	-4	—	-9	175
Saudi Arabia	0	0	—	0	—	57	451
United Arab Emirates	0	-4	0	3	—	31	6
Venezuela	—	0	—	0	0	0	0
<b>Non-OPEC</b>	<b>0</b>	<b>-507</b>	<b>37</b>	<b>-48</b>	<b>-2</b>	<b>-2,856</b>	<b>202</b>
Argentina	0	-6	—	-1	0	-48	31
Aruba	—	—	—	0	—	-5	-5
Australia	0	-9	0	0	0	-67	-99
Bahamas	—	—	0	0	—	-40	-40
Bahrain	0	—	—	4	—	4	4
Belgium	0	-17	0	-9	0	79	75
Brazil	0	-38	—	-11	0	-297	-120
Brunei	—	—	—	0	—	0	32
Cameroon	—	—	—	0	—	0	0
Canada	-2	-23	33	-2	0	24	3,734
Chad	—	—	—	0	—	0	15
China	3	-34	0	-1	0	-50	-280
Colombia	0	—	0	-2	0	-28	254
Denmark	0	-11	—	0	—	-26	-46
Dominican Republic	0	-5	-3	-1	0	-96	-120
Estonia	—	—	—	0	—	0	0
Finland	—	—	—	0	—	29	29
France	0	-9	—	0	—	-54	-72
Germany	0	0	0	1	—	3	3
Guatemala	—	—	—	-1	—	-107	-107
Honduras	0	-8	—	0	—	-77	-77
India	0	-66	0	-1	—	-28	-167
Indonesia	0	0	0	4	—	14	14
Italy	—	-12	—	0	—	36	-73
Japan	0	-56	0	-1	0	-596	-596
Korea, South	0	-14	—	17	0	-31	-562
Latvia	—	—	—	0	0	0	0
Lithuania	0	—	—	0	—	27	27
Malaysia	0	—	—	0	0	15	-2
Mexico	0	-89	-8	-39	-1	-1,154	-535
Netherlands	0	-8	0	-3	0	-51	-248
Norway	—	-3	—	0	—	0	-16
Oman	—	1	—	0	—	-9	-9
Panama	0	—	—	-1	—	-55	-55
Portugal	—	-7	—	0	—	24	24
Puerto Rico	0	—	0	0	—	-1	-1
Qatar	—	—	—	17	—	17	17
Russia	—	—	—	0	—	438	491
Spain	0	-14	2	0	—	-16	-96
Sweden	0	0	—	0	—	-40	-40
Trinidad and Tobago	—	—	—	0	—	-27	40
United Kingdom	0	-2	0	0	0	3	-87
Vietnam	—	—	—	0	—	0	0
Virgin Islands, U.S.	—	—	0	0	—	-27	-27
Yemen	—	—	—	—	—	—	—
Other	-1	-77	13	-18	-1	-639	-1,108
<b>Total</b>	<b>0</b>	<b>-517</b>	<b>37</b>	<b>-37</b>	<b>-2</b>	<b>-2,775</b>	<b>1,466</b>
<b>Persian Gulf<sup>2</sup></b>	<b>0</b>	<b>-4</b>	<b>0</b>	<b>24</b>	<b>—</b>	<b>118</b>	<b>857</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-July 2019**  
(Thousand Barrels per Day)

Country of Origin	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>1,544</b>	<b>-45</b>	<b>-</b>	<b>108</b>	<b>-</b>	<b>-34</b>	<b>-34</b>	<b>0</b>	<b>21</b>	<b>21</b>
Algeria .....	30	-	-	75	-	-	-	-	-	-
Angola .....	30	-	-	3	-	-	-	-	-	-
Congo (Brazzaville) .....	26	-	-	-	-	-	-	-	-	-
Ecuador .....	165	-40	-	2	-	-25	-25	-	-5	-5
Equatorial Guinea .....	12	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	351	-	-	1	-	-	-	-	-	-
Kuwait .....	59	0	-	0	-	0	0	0	-	0
Libya .....	54	-	-	5	-	-	-	-	-	-
Nigeria .....	162	-4	-	2	-	-2	-2	-	5	5
Saudi Arabia .....	558	0	-	16	-	0	0	-	11	11
United Arab Emirates .....	-41	0	-	11	-	0	0	0	4	4
Venezuela .....	139	-1	-	-9	-	-7	-7	0	6	6
<b>Non-OPEC</b> .....	<b>2,656</b>	<b>-1,492</b>	<b>21</b>	<b>261</b>	<b>-</b>	<b>-677</b>	<b>-677</b>	<b>173</b>	<b>445</b>	<b>618</b>
Argentina .....	38	1	-	-9	-	-5	-5	-	3	3
Aruba .....	-	0	-	0	-	-1	-1	-	-	-
Australia .....	-17	-11	-	2	-	-10	-10	0	-	0
Bahamas .....	-	-1	-	0	-	-3	-3	0	0	0
Bahrain .....	-	-	-	0	-	0	0	-	-	-
Belgium .....	-1	-4	-	52	-	1	1	5	21	26
Brazil .....	69	-59	-	-26	-	-50	-50	-	44	44
Brunei .....	19	-	-	-2	-	-	-	-	-	-
Cameroon .....	6	-	-	4	-	-	-	-	-	-
Canada .....	3,400	-62	17	-29	-	-8	-8	84	38	122
Chad .....	9	-	-	-	-	-	-	-	-	-
China .....	-154	-12	-	-7	-	0	0	-	1	1
Colombia .....	338	-1	-	-42	-	-23	-23	0	11	11
Denmark .....	-2	0	-	0	-	0	0	0	2	2
Dominican Republic .....	-15	-45	-	-6	-	-12	-12	0	0	0
Estonia .....	-	-	-	-	-	0	0	-	-	-
Finland .....	-	-	-	0	-	1	1	1	27	28
France .....	-42	-22	0	1	-	16	16	4	6	10
Germany .....	-27	-1	-	5	-	0	0	0	3	3
Guatemala .....	5	-14	-	0	-	-37	-37	0	-7	-7
Honduras .....	-	-17	-	0	-	-18	-18	-	-3	-3
India .....	-267	-101	-	6	-	0	0	0	74	74
Indonesia .....	-3	-65	-	0	-	-	-	-	3	3
Italy .....	-122	-1	-	12	-	-2	-2	0	19	19
Japan .....	-57	-388	-	-10	-	1	1	0	9	9
Korea, South .....	-412	-117	-	-7	-	8	8	0	7	7
Latvia .....	-	-	-	0	-	0	0	-	0	0
Lithuania .....	-3	-	-	0	-	-	-	-	6	6
Malaysia .....	-2	0	-	1	-	0	0	-	-	-
Mexico .....	613	-142	1	-11	-	-441	-441	0	-40	-41
Netherlands .....	-251	-59	-	-5	-	0	0	33	49	81
Norway .....	27	-23	-	16	-	1	1	3	17	20
Oman .....	-	-	-	-1	-	-	-	-	0	0
Panama .....	-49	0	-	0	-	-20	-20	-	0	0
Portugal .....	-	-10	-	-	-	-	-	3	32	34
Puerto Rico .....	-	0	-	0	-	0	0	-	0	0
Qatar .....	-	-	-	0	-	0	0	-	-	-
Russia .....	129	0	-	240	-	1	1	0	39	39
Spain .....	-39	-42	-	12	-	-2	-2	0	34	34
Sweden .....	-	-16	-	7	-	1	1	0	2	3
Trinidad and Tobago .....	45	-1	-	0	-	-4	-4	-	1	1
United Kingdom .....	-138	-53	-	5	-	11	11	41	24	65
Vietnam .....	-7	-	-	0	-	0	0	-	0	0
Virgin Islands, U.S. ....	-	-13	-	-	-	-1	-1	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	-434	-213	3	53	-	-81	-81	-1	23	24
<b>Total</b> .....	<b>4,201</b>	<b>-1,537</b>	<b>21</b>	<b>369</b>	<b>-</b>	<b>-711</b>	<b>-711</b>	<b>173</b>	<b>467</b>	<b>639</b>
<b>Persian Gulf<sup>2</sup></b> .....	<b>926</b>	<b>0</b>	<b>-</b>	<b>29</b>	<b>-</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>15</b>

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-July 2019**  
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
<b>OPEC</b>	<b>-1</b>	<b>0</b>	<b>-4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-10</b>	<b>-15</b>	<b>-1</b>	<b>1</b>	<b>-25</b>
Algeria	-	-	0	-	-	-	-	-2	-	-	-2
Angola	-	0	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-18	-12	-1	1	-31
Equatorial Guinea	-	-	-	-	-	-	-	-	0	-	0
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	0	-	-	-	0
Libya	-	-	-	-	-	-	0	-	-	-	0
Nigeria	-	-	-1	-	-	-	1	-	-	-	1
Saudi Arabia	-	0	-1	-	-	-	6	-	-	-	6
United Arab Emirates	-	-	-1	-	-	-	1	-	-	-	1
Venezuela	-1	-	-	-	-	-	0	-	-	-	0
<b>Non-OPEC</b>	<b>-36</b>	<b>-23</b>	<b>-87</b>	<b>3</b>	<b>17</b>	<b>-</b>	<b>-852</b>	<b>-109</b>	<b>-134</b>	<b>7</b>	<b>-1,088</b>
Argentina	1	-	0	0	-	-	-30	-1	-2	-	-33
Aruba	-	-	0	-	-	-	0	-	-	-	0
Australia	0	0	0	-	-	-	0	-	-	-	0
Bahamas	-	0	0	-	-	-	-22	-1	-9	2	-29
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	0	0	0	1	-	-	-	-	-1	-	-1
Brazil	0	2	-19	0	-	-	-160	-7	-12	-	-178
Brunei	-	-	-	-	-	-	0	-	-	-	0
Cameroon	-	-	-	-	-	-	0	-	-	-	0
Canada	-	0	-20	-3	-	-	94	-12	0	3	85
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	1	-1	-	-	0
Colombia	-	-	-5	-	-	-	-18	-	-	-	-18
Denmark	-	-	-	-	-	-	-2	-	-	-	-2
Dominican Republic	-	-	0	-	-	-	-10	-6	-8	-	-24
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	0	-	-	-	0	-	-	-	0
France	-	0	0	1	-	-	-37	-4	0	-	-42
Germany	0	0	0	3	-	-	0	-	1	-	0
Guatemala	-	-	0	-	-	-	-18	-20	-4	-	-42
Honduras	-	0	-	-	-	-	-7	-7	-6	-	-20
India	-1	0	-13	0	-	-	30	-	-	-	30
Indonesia	0	-	0	-	-	-	1	-	-	-	1
Italy	-	-	0	-	-	-	-3	-	-	-	-3
Japan	-	-26	0	-	-	-	0	0	-	-	0
Korea, South	-1	0	-7	1	-	-	-1	-	-	-	-1
Latvia	-2	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	2	-	0	-	2
Mexico	-26	0	-2	0	-	-	-281	-5	-2	-	-288
Netherlands	-	0	-3	-1	-	-	-37	-4	-12	-	-53
Norway	0	-	0	-	-	-	-2	-	-	-	-2
Oman	-	-	-3	-	-	-	0	-	-	-	0
Panama	-	-	0	-	-	-	-28	-4	-14	-	-46
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	0	0	-	-	0
Qatar	-	-	0	-	-	-	10	-	-	-	10
Russia	-	0	0	-	-	-	2	1	-	2	5
Spain	-	-	-1	1	-	-	-21	-3	-2	-	-26
Sweden	-	-	0	-	-	-	0	-	-	-	0
Trinidad and Tobago	-	-	0	-	-	-	-6	-6	-4	-	-16
United Kingdom	-	0	-1	-	-	-	-40	-	-	-	-40
Vietnam	-	0	0	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-4	-	-8	-	-12
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	1	-13	0	17	-	-265	-29	-51	0	-345
<b>Total</b>	<b>-37</b>	<b>-23</b>	<b>-91</b>	<b>3</b>	<b>17</b>	<b>-</b>	<b>-863</b>	<b>-124</b>	<b>-135</b>	<b>8</b>	<b>-1,113</b>
<b>Persian Gulf<sup>2</sup></b>	<b>-</b>	<b>0</b>	<b>-2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>16</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>16</b>

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-July 2019**  
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
<b>OPEC</b> .....	<b>0</b>	<b>-</b>	<b>-</b>	<b>6</b>	<b>-</b>	<b>6</b>	<b>-</b>	<b>-</b>
Algeria .....	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-
Ecuador .....	0	-	-	0	-	-8	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-
Iraq .....	0	-	-	0	-	0	-	-
Kuwait .....	-	-	-	0	-	-	-	-
Libya .....	-	-	-	0	-	0	-	-
Nigeria .....	-	-	-	0	-	-	-	-
Saudi Arabia .....	0	-	-	3	-	3	-	-
United Arab Emirates .....	0	-	-	2	-	0	-	-
Venezuela .....	-	-	-	0	-	11	-	-
<b>Non-OPEC</b> .....	<b>-2</b>	<b>1</b>	<b>-</b>	<b>-46</b>	<b>16</b>	<b>-108</b>	<b>13</b>	<b>3</b>
Argentina .....	-	-	-	-3	-	10	-	-
Aruba .....	0	-	-	-1	-	-	-1	-
Australia .....	-	-	-	-	-	0	-	-
Bahamas .....	-	-	-	-2	-	-9	-	-
Bahrain .....	-	-	-	0	-	-	-	-
Belgium .....	-	-	-	-	-	0	0	-
Brazil .....	0	-	-	-2	1	-2	-	0
Brunei .....	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-
Canada .....	-2	0	-	-22	3	5	3	3
Chad .....	-	-	-	-	-	-	-	-
China .....	0	-	-	2	-	0	-	-
Colombia .....	0	-	-	-1	-	17	-	-
Denmark .....	-	-	-	0	-	-	-	-
Dominican Republic .....	0	-	-	-9	-	-4	-	-
Estonia .....	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-2	-	0	-	-
France .....	-	-	-	-	0	-	-	1
Germany .....	-	-	-	-	-	0	-	-
Guatemala .....	0	-	-	-6	-	-2	-	-
Honduras .....	0	-	-	-2	-	-7	-	-
India .....	-	-	-	1	1	0	-	-
Indonesia .....	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	0	-
Japan .....	0	-	-	16	3	0	2	0
Korea, South .....	0	0	-	94	6	-1	-	-
Latvia .....	-	-	-	0	-	-	-	-
Lithuania .....	0	-	-	-	-	-	-	-
Malaysia .....	0	-	-	-	-	-	-	-
Mexico .....	-1	-	-	-53	1	-30	6	-
Netherlands .....	-	0	-	-2	-	-25	-	-
Norway .....	-	-	-	-	-	1	-	-
Oman .....	-	-	-	-	-	-	-	-
Panama .....	0	-	-	-13	-	-22	-	-
Portugal .....	-	-	-	-	-	-	-	-
Puerto Rico .....	0	-	-	0	-	0	-	-
Qatar .....	0	-	-	2	-	-	-	-
Russia .....	-	-	-	0	0	24	-	-
Spain .....	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	0	-	1	-	-
Trinidad and Tobago .....	0	-	-	-5	-	-	-	-
United Kingdom .....	0	-	-	-5	-	-3	1	-
Vietnam .....	0	-	-	0	-	0	-	-
Virgin Islands, U.S. ....	0	-	-	-7	-	-4	-	-
Yemen .....	-	-	-	-	-	-	-	-
Other .....	1	1	-	-26	1	-57	1	-1
<b>Total</b> .....	<b>-2</b>	<b>1</b>	<b>-</b>	<b>-40</b>	<b>16</b>	<b>-101</b>	<b>13</b>	<b>3</b>
<b>Persian Gulf<sup>2</sup></b> .....	<b>0</b>	<b>-</b>	<b>-</b>	<b>8</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-July 2019**  
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
<b>OPEC</b>	<b>0</b>	<b>-11</b>	<b>0</b>	<b>-3</b>	<b>0</b>	<b>19</b>	<b>1,563</b>
Algeria	—	—	0	2	—	75	105
Angola	—	—	0	0	—	3	33
Congo (Brazzaville)	—	—	—	—	—	—	27
Ecuador	0	-5	0	-2	0	-115	50
Equatorial Guinea	—	—	—	0	—	0	12
Gabon	—	—	0	0	—	0	0
Iran	—	—	—	—	—	—	—
Iraq	—	—	0	0	—	2	353
Kuwait	—	0	0	0	—	0	59
Libya	—	—	—	0	—	5	59
Nigeria	0	—	0	-3	—	-2	159
Saudi Arabia	0	-1	0	0	0	36	593
United Arab Emirates	0	-4	0	1	0	15	-26
Venezuela	—	0	0	0	0	-1	138
<b>Non-OPEC</b>	<b>1</b>	<b>-523</b>	<b>14</b>	<b>-62</b>	<b>-2</b>	<b>-3,179</b>	<b>-523</b>
Argentina	0	2	0	-1	0	-35	3
Aruba	—	—	0	0	—	-3	-3
Australia	0	-7	0	-1	0	-27	-44
Bahamas	0	—	0	0	0	-45	-45
Bahrain	0	—	—	3	—	3	3
Belgium	0	-13	0	-13	0	49	47
Brazil	0	-42	—	-13	0	-344	-275
Brunei	—	—	—	0	—	-2	17
Cameroon	—	—	—	0	—	4	10
Canada	-1	-20	27	-1	0	95	3,495
Chad	—	—	—	0	—	0	9
China	2	-37	0	-1	0	-52	-206
Colombia	0	-1	0	-3	0	-66	272
Denmark	0	-3	—	0	—	-3	-5
Dominican Republic	0	-6	-3	-1	0	-110	-125
Estonia	—	—	—	0	—	0	0
Finland	0	-1	0	0	—	25	25
France	0	-7	—	-1	—	-44	-86
Germany	0	-1	0	1	0	11	-15
Guatemala	0	-10	0	-1	—	-117	-112
Honduras	0	-6	-1	0	—	-73	-73
India	0	-95	0	-3	0	-100	-368
Indonesia	0	0	0	2	0	-59	-62
Italy	0	-15	0	0	—	11	-111
Japan	0	-62	0	0	0	-455	-511
Korea, South	0	-6	1	12	0	-9	-420
Latvia	—	—	—	0	0	-1	-1
Lithuania	0	0	—	0	—	6	2
Malaysia	0	-3	0	0	0	1	-1
Mexico	-1	-55	-10	-36	-1	-1,131	-518
Netherlands	0	-12	0	-2	0	-79	-330
Norway	0	-3	—	0	—	10	36
Oman	—	1	0	0	—	-4	-4
Panama	0	-1	-1	-1	0	-104	-152
Portugal	0	-3	—	0	—	22	22
Puerto Rico	0	0	0	0	—	-1	-1
Qatar	0	0	0	11	—	23	23
Russia	0	—	0	1	—	309	439
Spain	0	-12	3	0	0	-34	-73
Sweden	0	-1	—	0	0	-7	-7
Trinidad and Tobago	0	0	0	0	0	-26	19
United Kingdom	0	-3	0	0	0	-22	-160
Vietnam	0	0	0	0	0	0	-7
Virgin Islands, U.S.	—	—	0	0	0	-38	-38
Yemen	—	—	—	0	—	0	0
Other	1	-101	-2	-14	-1	-757	-1,192
<b>Total</b>	<b>1</b>	<b>-534</b>	<b>14</b>	<b>-65</b>	<b>-2</b>	<b>-3,161</b>	<b>1,040</b>
<b>Persian Gulf<sup>2</sup></b>	<b>0</b>	<b>-6</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>78</b>	<b>1,005</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, July 2019**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
<b>Crude Oil</b> .....	<b>10,651</b>	<b>134,329</b>	<b>872,204</b>	<b>20,653</b>	<b>49,031</b>	<b>1,086,868</b>
Refinery .....	8,306	13,281	47,994	2,217	22,077	93,875
Tank Farms and Pipelines (Includes Cushing, OK) ....	2,345	121,048	179,392	18,436	23,780	345,001
Cushing, Oklahoma .....	—	47,707	—	—	—	47,707
Leases .....	—	—	—	—	—	—
Strategic Petroleum Reserve <sup>1</sup> .....	—	—	644,818	—	—	644,818
Alaskan In Transit .....	—	—	—	—	3,174	3,174
<b>Total Stocks, All Oils (excluding Crude Oil)<sup>2</sup></b> .....	<b>158,753</b>	<b>187,576</b>	<b>406,632</b>	<b>22,760</b>	<b>96,903</b>	<b>872,623</b>
Refinery .....	16,614	48,989	129,099	11,384	52,608	258,694
Bulk Terminal .....	113,041	100,541	217,062	7,060	38,796	476,499
Pipeline .....	28,806	36,622	57,378	4,134	5,139	132,079
Natural Gas Processing Plant .....	292	1,424	3,093	182	360	5,351
<b>Natural Gas Liquids</b> .....	<b>9,066</b>	<b>57,746</b>	<b>157,688</b>	<b>4,332</b>	<b>4,488</b>	<b>233,320</b>
Refinery .....	616	4,666	7,388	407	1,403	14,480
Bulk Terminal .....	6,566	36,791	126,659	1,657	2,725	174,398
Pipeline .....	1,592	14,865	20,548	2,086	—	39,091
Natural Gas Processing Plant .....	292	1,424	3,093	182	360	5,351
<b>Ethane</b> .....	<b>493</b>	<b>4,782</b>	<b>50,980</b>	<b>525</b>	<b>—</b>	<b>56,780</b>
Refinery .....	—	—	232	—	—	232
Bulk Terminal .....	280	1,866	43,298	—	—	45,444
Pipeline .....	213	2,752	7,222	520	—	10,707
Natural Gas Processing Plant .....	—	164	228	5	—	397
<b>Propane</b> .....	<b>5,457</b>	<b>22,797</b>	<b>46,442</b>	<b>1,472</b>	<b>1,653</b>	<b>77,821</b>
Refinery .....	81	1,385	1,164	40	100	2,770
Bulk Terminal .....	4,223	17,182	37,982	581	1,504	61,472
Pipeline .....	1,029	3,580	6,958	776	—	12,343
Natural Gas Processing Plant .....	124	650	338	75	49	1,236
<b>Normal Butane</b> .....	<b>2,704</b>	<b>18,653</b>	<b>41,820</b>	<b>1,638</b>	<b>2,202</b>	<b>67,017</b>
Refinery .....	408	2,188	4,085	238	758	7,677
Bulk Terminal .....	1,958	15,260	34,053	1,059	1,217	53,547
Pipeline .....	267	997	2,051	302	—	3,617
Natural Gas Processing Plant .....	71	208	1,631	39	227	2,176
<b>Isobutane</b> .....	<b>188</b>	<b>2,475</b>	<b>7,849</b>	<b>285</b>	<b>584</b>	<b>11,381</b>
Refinery .....	127	648	1,356	100	542	2,773
Bulk Terminal .....	—	1,062	5,173	—	—	6,235
Pipeline .....	42	547	1,225	170	—	1,984
Natural Gas Processing Plant .....	19	218	95	15	42	389
<b>Natural Gasoline</b> .....	<b>224</b>	<b>9,039</b>	<b>10,597</b>	<b>412</b>	<b>49</b>	<b>20,321</b>
Refinery .....	—	445	551	29	3	1,028
Bulk Terminal .....	105	1,421	6,153	17	4	7,700
Pipeline .....	41	6,989	3,092	318	—	10,440
Natural Gas Processing Plant .....	78	184	801	48	42	1,153
<b>Refinery Olefins</b> .....	<b>149</b>	<b>599</b>	<b>6,972</b>	<b>98</b>	<b>39</b>	<b>7,857</b>
Refinery .....	149	587	2,983	98	39	3,856
Bulk Terminal .....	—	12	3,989	—	—	4,001
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Ethylene</b> .....	<b>—</b>	<b>—</b>	<b>0</b>	<b>—</b>	<b>—</b>	<b>0</b>
Refinery .....	—	—	0	—	—	0
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Propylene</b> .....	<b>99</b>	<b>495</b>	<b>5,333</b>	<b>0</b>	<b>15</b>	<b>5,942</b>
Refinery .....	99	483	1,344	0	15	1,941
Bulk Terminal .....	—	12	3,989	—	—	4,001
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Normal Butylene</b> .....	<b>17</b>	<b>104</b>	<b>1,639</b>	<b>98</b>	<b>24</b>	<b>1,882</b>
Refinery .....	17	104	1,639	98	24	1,882
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Isobutylene</b> .....	<b>33</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>33</b>
Refinery .....	33	0	0	0	0	33
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Other Hydrocarbons</b> .....	<b>—</b>	<b>24</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>24</b>
Refinery .....	—	24	—	—	—	24
<b>Oxygenates (excluding Fuel Ethanol)</b> .....	<b>—</b>	<b>3</b>	<b>1,729</b>	<b>—</b>	<b>—</b>	<b>1,732</b>
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	3	1,729	—	—	1,732
Pipeline .....	—	—	—	—	—	—

See footnotes at end of table.

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, July 2019**  
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
<b>MTBE</b> .....	—	—	1,630	—	—	1,630
Refinery .....	—	—	—	—	—	—
Bulk Terminal <sup>3</sup> .....	—	—	1,630	—	—	1,630
Pipeline .....	—	—	—	—	—	—
<b>Other Oxygenates<sup>4</sup></b> .....	—	3	99	—	—	102
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	3	99	—	—	102
Pipeline .....	—	—	—	—	—	—
<b>Renewable Fuels (including Fuel Ethanol)</b> .....	8,802	9,114	6,422	444	4,943	29,724
Refinery .....	257	123	497	216	465	1,558
Bulk Terminal .....	8,545	8,991	5,925	225	4,478	28,163
Pipeline .....	—	—	—	3	—	3
<b>Fuel Ethanol<sup>2</sup></b> .....	7,518	7,852	4,520	349	2,996	23,235
Refinery .....	252	90	195	125	32	694
Bulk Terminal .....	7,266	7,762	4,325	221	2,964	22,538
Pipeline .....	—	—	—	3	—	3
<b>Renewable Diesel Fuel<sup>5</sup></b> .....	1,284	1,262	1,899	95	1,906	6,445
Refinery .....	5	33	302	91	433	864
Bulk Terminal .....	1,279	1,229	1,597	4	1,473	5,581
Pipeline .....	—	—	—	—	—	—
<b>Other Renewable Fuels</b> .....	—	—	3	—	41	44
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	—	3	—	41	44
Pipeline .....	—	—	—	—	—	—
<b>Unfinished Oils</b> .....	5,769	13,603	52,340	3,274	21,130	96,116
<b>Naphthas and Lighter</b> .....	1,390	3,523	10,942	782	3,436	20,073
Refinery .....	1,390	3,498	9,646	782	3,141	18,457
Bulk Terminal .....	—	25	1,296	—	295	1,616
<b>Kerosene and Light Gas Oils</b> .....	663	2,391	9,238	532	3,495	16,319
Refinery .....	663	2,391	6,860	532	3,427	13,873
Bulk Terminal .....	—	—	2,378	—	68	2,446
<b>Heavy Gas Oils</b> .....	2,544	5,021	26,733	1,384	10,941	46,623
Refinery .....	2,169	4,755	21,726	1,384	10,487	40,521
Bulk Terminal .....	375	266	5,007	—	454	6,102
<b>Residuum</b> .....	1,172	2,668	5,427	576	3,258	13,101
Refinery .....	1,172	2,357	5,052	576	3,229	12,386
Bulk Terminal .....	—	311	375	—	29	715
<b>Motor Gasoline Blending Components<sup>2</sup></b> .....	57,358	43,444	77,648	5,813	29,109	213,372
Refinery .....	4,659	12,545	28,696	3,164	14,662	63,726
Bulk Terminal .....	40,636	20,835	30,131	1,784	12,230	105,616
Pipeline .....	12,063	10,064	18,821	865	2,217	44,030
<b>Reformulated - RBOB</b> .....	18,389	6,410	12,588	—	15,102	52,489
Refinery .....	1,011	867	2,193	—	5,770	9,841
Bulk Terminal .....	12,945	3,478	5,549	—	7,864	29,836
Pipeline .....	4,433	2,065	4,846	—	1,468	12,812
<b>Conventional</b> .....	38,969	37,034	65,060	5,813	14,007	160,883
Refinery .....	3,648	11,678	26,503	3,164	8,892	53,885
Bulk Terminal .....	27,691	17,357	24,582	1,784	4,366	75,780
Pipeline .....	7,630	7,999	13,975	865	749	31,218
<b>CBOB</b> .....	26,938	29,498	36,295	4,288	6,778	103,797
Refinery .....	895	5,321	11,754	1,642	2,184	21,796
Bulk Terminal .....	18,413	16,290	10,936	1,781	3,849	51,269
Pipeline .....	7,630	7,887	13,605	865	745	30,732
<b>GTAB</b> .....	1,282	—	—	—	—	1,282
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	1,282	—	—	—	—	1,282
Pipeline .....	—	—	—	—	—	—
<b>Other</b> .....	10,749	7,536	28,765	1,525	7,229	55,804
Refinery .....	2,753	6,357	14,749	1,522	6,708	32,089
Bulk Terminal .....	7,996	1,067	13,646	3	517	23,229
Pipeline .....	—	112	370	—	4	486
<b>Aviation Gasoline Blending Components</b> .....	—	—	30	—	—	30
Refinery .....	—	—	30	—	—	30
Bulk Terminal .....	—	—	—	—	—	—
<b>Finished Motor Gasoline</b> .....	3,717	6,774	7,112	1,622	2,647	21,872
Refinery .....	44	1,240	2,543	787	857	5,471
Bulk Terminal .....	1,637	2,621	3,585	581	1,566	9,990
Pipeline .....	2,036	2,913	984	254	224	6,411
<b>Reformulated</b> .....	30	—	—	—	18	48
Refinery .....	—	—	—	—	18	18
Bulk Terminal .....	30	—	—	—	—	30
Pipeline .....	—	—	—	—	—	—
<b>Reformulated (Blended with Fuel Ethanol)</b> .....	30	—	—	—	18	48
Refinery .....	—	—	—	—	18	18
Bulk Terminal .....	30	—	—	—	—	30
Pipeline .....	—	—	—	—	—	—

See footnotes at end of table.



**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, July 2019**  
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
<b>Reformulated (Other)</b> .....	—	—	—	—	—	—
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
<b>Conventional</b> .....	<b>3,687</b>	<b>6,774</b>	<b>7,112</b>	<b>1,622</b>	<b>2,629</b>	<b>21,824</b>
Refinery .....	44	1,240	2,543	787	839	5,453
Bulk Terminal .....	1,607	2,621	3,585	581	1,566	9,960
Pipeline .....	2,036	2,913	984	254	224	6,411
<b>Conventional (Blended with Fuel Ethanol)</b> .....	<b>40</b>	<b>199</b>	—	<b>59</b>	<b>11</b>	<b>309</b>
Refinery .....	—	—	—	57	—	57
Bulk Terminal .....	40	199	—	2	11	252
Pipeline .....	—	—	—	—	—	—
<b>Ed55 and Lower</b> .....	<b>40</b>	<b>199</b>	—	<b>59</b>	—	<b>298</b>
Refinery .....	—	—	—	57	—	57
Bulk Terminal .....	40	199	—	2	—	241
Pipeline .....	—	—	—	—	—	—
<b>Greater than Ed55</b> .....	—	—	—	—	—	—
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	—	—	—	11	11
Pipeline .....	—	—	—	—	—	—
<b>Conventional (Other)</b> .....	<b>3,647</b>	<b>6,575</b>	<b>7,112</b>	<b>1,563</b>	<b>2,618</b>	<b>21,515</b>
Refinery .....	44	1,240	2,543	730	839	5,396
Bulk Terminal .....	1,567	2,422	3,585	579	1,555	9,708
Pipeline .....	2,036	2,913	984	254	224	6,411
<b>Finished Aviation Gasoline</b> .....	<b>173</b>	<b>163</b>	<b>387</b>	<b>9</b>	<b>213</b>	<b>945</b>
Refinery .....	—	77	244	9	130	460
Bulk Terminal .....	173	86	143	—	83	485
Pipeline .....	—	—	—	—	—	—
<b>Kerosene-Type Jet Fuel</b> .....	<b>10,575</b>	<b>7,270</b>	<b>14,647</b>	<b>710</b>	<b>10,055</b>	<b>43,257</b>
Refinery .....	545	1,888	6,942	355	3,800	13,530
Bulk Terminal .....	5,351	3,716	3,073	196	5,156	17,492
Pipeline .....	4,679	1,666	4,632	159	1,099	12,235
<b>Kerosene</b> .....	<b>1,473</b>	<b>189</b>	<b>414</b>	—	<b>20</b>	<b>2,096</b>
Refinery .....	91	129	136	—	3	359
Bulk Terminal .....	1,357	60	157	—	17	1,591
Pipeline .....	25	—	121	—	—	146
<b>Distillate Fuel Oil<sup>2</sup></b> .....	<b>45,545</b>	<b>32,623</b>	<b>41,575</b>	<b>4,152</b>	<b>13,902</b>	<b>137,797</b>
Refinery .....	2,498	6,252	15,750	1,830	5,639	31,969
Bulk Terminal .....	34,636	19,257	13,553	1,555	6,672	75,673
Pipeline .....	8,411	7,114	12,272	767	1,591	30,155
<b>15 ppm sulfur and Under</b> .....	<b>40,069</b>	<b>31,781</b>	<b>35,062</b>	<b>3,931</b>	<b>13,004</b>	<b>123,847</b>
Refinery .....	1,953	5,793	12,807	1,673	5,121	27,347
Bulk Terminal .....	30,313	19,081	10,641	1,493	6,455	67,983
Pipeline .....	7,803	6,907	11,614	765	1,428	28,517
<b>Greater than 15 ppm to 500 ppm sulfur</b> .....	<b>1,369</b>	<b>458</b>	<b>1,273</b>	<b>172</b>	<b>226</b>	<b>3,498</b>
Refinery .....	260	103	831	108	225	1,527
Bulk Terminal .....	1,101	162	375	62	1	1,701
Pipeline .....	8	193	67	2	—	270
<b>Greater than 500 ppm sulfur</b> .....	<b>4,107</b>	<b>384</b>	<b>5,240</b>	<b>49</b>	<b>672</b>	<b>10,452</b>
Refinery .....	285	356	2,112	49	293	3,095
Bulk Terminal .....	3,222	14	2,537	—	216	5,989
Pipeline .....	600	14	591	—	163	1,368
<b>Residual Fuel Oil<sup>6</sup></b> .....	<b>7,407</b>	<b>1,279</b>	<b>16,471</b>	<b>215</b>	<b>5,236</b>	<b>30,608</b>
Refinery .....	724	1,098	3,882	215	2,208	8,127
Bulk Terminal .....	6,683	181	12,589	—	3,020	22,473
Pipeline .....	—	—	—	—	8	8
<b>Less than 0.31% Sulfur</b> .....	<b>1,651</b>	<b>60</b>	<b>1,461</b>	<b>31</b>	<b>618</b>	<b>3,821</b>
Refinery .....	163	60	194	31	—	448
Bulk Terminal .....	1,488	—	1,267	—	618	3,373
<b>0.31% to 1.00% Sulfur</b> .....	<b>1,474</b>	<b>257</b>	<b>2,533</b>	<b>3</b>	<b>433</b>	<b>4,700</b>
Refinery .....	78	159	191	3	199	630
Bulk Terminal .....	1,396	98	2,342	—	234	4,070
<b>Greater than 1.00% Percent Sulfur</b> .....	<b>4,282</b>	<b>962</b>	<b>12,477</b>	<b>181</b>	<b>4,177</b>	<b>22,079</b>
Refinery .....	483	879	3,497	181	2,009	7,049
Bulk Terminal .....	3,799	83	8,980	—	2,168	15,030
<b>Petrochemical Feedstocks</b> .....	<b>49</b>	<b>583</b>	<b>2,651</b>	—	<b>4</b>	<b>3,287</b>
Refinery .....	49	583	2,651	—	4	3,287
Naphtha for Petrochemical Feedstock Use .....	49	465	1,880	—	4	2,398
Other Oils for Petrochemical Feedstock Use .....	—	118	771	—	—	889
<b>Special Naphthas</b> .....	<b>39</b>	<b>118</b>	<b>896</b>	—	<b>53</b>	<b>1,106</b>
Refinery .....	21	61	884	—	53	1,019
Bulk Terminal .....	18	57	12	—	—	87
<b>Lubricants</b> .....	<b>1,012</b>	<b>600</b>	<b>8,390</b>	—	<b>734</b>	<b>10,736</b>
Refinery .....	556	196	5,172	—	512	6,436
Bulk Terminal .....	456	404	3,218	—	222	4,300
<b>Waxes</b> .....	<b>337</b>	<b>50</b>	<b>296</b>	—	—	<b>683</b>
Refinery .....	337	50	296	—	—	683
<b>Petroleum Coke</b> .....	—	<b>1,942</b>	<b>5,100</b>	<b>149</b>	<b>1,680</b>	<b>8,871</b>
Refinery .....	—	1,942	5,100	149	1,680	8,871
<b>Asphalt and Road Oil</b> .....	<b>7,252</b>	<b>11,359</b>	<b>5,459</b>	<b>1,922</b>	<b>2,575</b>	<b>28,567</b>
Refinery .....	644	4,434	2,216	860	794	8,948
Bulk Terminal .....	6,608	6,925	3,243	1,062	1,781	19,619

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, July 2019**  
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
<b>Miscellaneous Products</b> .....	<b>30</b>	<b>93</b>	<b>405</b>	<b>20</b>	<b>75</b>	<b>623</b>
Refinery .....	30	93	405	20	75	623
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
<b>Total Stocks, All Oils</b> .....	<b>169,404</b>	<b>321,905</b>	<b>1,278,836</b>	<b>43,413</b>	<b>145,934</b>	<b>1,959,491</b>

— = No Data Reported.

Lease stocks were excluded from crude oil stocks beginning with data for July 2016 (see explanatory notes).

<sup>1</sup> Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

<sup>2</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Includes stocks held at fuel ethanol production facilities.

<sup>3</sup> Includes stocks held by merchant producers.

<sup>4</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

<sup>5</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

<sup>6</sup> Sulfur content not available for stocks held by pipelines.

Note: Stocks are reported as of the last day of the month.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

**Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, July 2019**  
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components <sup>1</sup>			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
<b>PAD District 1</b> .....	<b>30</b>	<b>1,651</b>	<b>1,681</b>	<b>13,956</b>	<b>31,339</b>	<b>45,295</b>	<b>1,448</b>
Connecticut .....	—	—	—	1,247	35	1,282	12
Delaware .....	—	—	—	493	583	1,076	81
District of Columbia .....	—	—	—	—	—	—	—
Florida .....	—	539	539	—	5,676	5,676	—
Georgia .....	—	302	302	—	3,001	3,001	—
Maine .....	—	—	—	394	278	672	173
Maryland .....	—	—	—	1,142	105	1,247	60
Massachusetts .....	4	—	4	1,512	—	1,512	17
New Hampshire .....	—	—	—	—	—	—	—
New Jersey .....	—	222	222	5,795	10,510	16,305	405
New York .....	26	7	33	478	1,714	2,192	387
North Carolina .....	—	264	264	—	2,480	2,480	150
Pennsylvania .....	—	22	22	831	4,447	5,278	94
Rhode Island .....	—	—	—	625	—	625	—
South Carolina .....	—	164	164	—	1,124	1,124	22
Vermont .....	—	40	40	—	—	—	4
Virginia .....	—	52	52	1,439	1,210	2,649	43
West Virginia .....	—	39	39	—	176	176	—
<b>PAD District 2</b> .....	<b>—</b>	<b>3,861</b>	<b>3,861</b>	<b>4,345</b>	<b>29,035</b>	<b>33,380</b>	<b>189</b>
Illinois .....	—	354	354	2,075	4,266	6,341	136
Indiana .....	—	281	281	830	3,700	4,530	—
Iowa .....	—	206	206	—	1,397	1,397	11
Kansas .....	—	354	354	—	2,918	2,918	14
Kentucky .....	—	229	229	596	1,361	1,957	3
Michigan .....	—	140	140	36	2,522	2,558	—
Minnesota .....	—	498	498	—	2,366	2,366	—
Missouri .....	—	185	185	332	519	851	—
Nebraska .....	—	75	75	—	667	667	—
North Dakota .....	—	97	97	—	614	614	—
Ohio .....	—	610	610	3	3,200	3,203	7
Oklahoma .....	—	550	550	—	2,219	2,219	—
South Dakota .....	—	33	33	—	274	274	—
Tennessee .....	—	178	178	—	2,025	2,025	—
Wisconsin .....	—	71	71	473	987	1,460	18
<b>PAD District 3</b> .....	<b>—</b>	<b>6,128</b>	<b>6,128</b>	<b>7,742</b>	<b>51,085</b>	<b>58,827</b>	<b>293</b>
Alabama .....	—	146	146	—	1,419	1,419	6
Arkansas .....	—	161	161	52	702	754	—
Louisiana .....	—	945	945	792	12,271	13,063	105
Mississippi .....	—	1,453	1,453	1	1,928	1,929	—
New Mexico .....	—	23	23	—	613	613	—
Texas .....	—	3,400	3,400	6,897	34,152	41,049	182
<b>PAD District 4</b> .....	<b>—</b>	<b>1,368</b>	<b>1,368</b>	<b>—</b>	<b>4,948</b>	<b>4,948</b>	<b>—</b>
Colorado .....	—	170	170	—	1,208	1,208	—
Idaho .....	—	268	268	—	106	106	—
Montana .....	—	355	355	—	1,365	1,365	—
Utah .....	—	118	118	—	1,315	1,315	—
Wyoming .....	—	457	457	—	954	954	—
<b>PAD District 5</b> .....	<b>18</b>	<b>2,405</b>	<b>2,423</b>	<b>13,634</b>	<b>13,258</b>	<b>26,892</b>	<b>20</b>
Alaska .....	—	807	807	—	—	—	17
Arizona .....	—	44	44	357	380	737	—
California .....	18	358	376	13,108	6,486	19,594	3
Hawaii .....	—	406	406	—	631	631	—
Nevada .....	—	219	219	14	408	422	—
Oregon .....	—	34	34	—	1,634	1,634	—
Washington .....	—	537	537	155	3,719	3,874	—
<b>U.S. Total</b> .....	<b>48</b>	<b>15,413</b>	<b>15,461</b>	<b>39,677</b>	<b>129,665</b>	<b>169,342</b>	<b>1,950</b>

See footnotes at end of table.

**Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, July 2019**  
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil <sup>1</sup>				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
<b>PAD District 1</b> .....	<b>32,266</b>	<b>1,361</b>	<b>3,507</b>	<b>37,134</b>	<b>7,407</b>	<b>4,428</b>
Connecticut .....	2,776	6	65	2,847	12	—
Delaware .....	498	28	89	615	819	17
District of Columbia .....	—	—	—	—	—	—
Florida .....	2,558	106	—	2,664	472	284
Georgia .....	1,245	—	—	1,245	80	7
Maine .....	855	1	192	1,048	59	—
Maryland .....	1,975	—	—	1,975	558	3
Massachusetts .....	969	289	141	1,399	17	—
New Hampshire .....	262	—	—	262	2	291
New Jersey .....	10,267	219	1,929	12,415	2,853	45
New York .....	3,485	63	79	3,627	1,728	1,203
North Carolina .....	1,462	—	4	1,466	—	5
Pennsylvania .....	3,194	247	631	4,072	721	1,943
Rhode Island .....	598	71	—	669	—	—
South Carolina .....	778	—	—	778	33	550
Vermont .....	66	—	6	72	—	—
Virginia .....	1,149	307	371	1,827	53	1
West Virginia .....	129	24	—	153	—	79
<b>PAD District 2</b> .....	<b>24,874</b>	<b>265</b>	<b>370</b>	<b>25,509</b>	<b>1,279</b>	<b>19,217</b>
Illinois .....	2,946	—	—	2,946	303	842
Indiana .....	3,366	—	62	3,428	91	287
Iowa .....	3,035	—	—	3,035	1	401
Kansas .....	2,345	—	—	2,345	56	12,905
Kentucky .....	712	28	—	740	162	234
Michigan .....	1,229	71	—	1,300	206	3,296
Minnesota .....	2,014	—	38	2,052	203	202
Missouri .....	643	63	3	709	—	31
Nebraska .....	970	—	—	970	—	339
North Dakota .....	936	1	—	937	26	52
Ohio .....	1,934	—	95	2,029	117	490
Oklahoma .....	1,848	94	59	2,001	33	51
South Dakota .....	700	—	—	700	—	16
Tennessee .....	1,062	—	—	1,062	69	1
Wisconsin .....	1,134	8	113	1,255	12	70
<b>PAD District 3</b> .....	<b>23,448</b>	<b>1,206</b>	<b>4,649</b>	<b>29,303</b>	<b>16,471</b>	<b>39,484</b>
Alabama .....	1,011	6	40	1,057	488	25
Arkansas .....	814	—	23	837	—	35
Louisiana .....	5,079	463	1,513	7,055	8,147	1,501
Mississippi .....	1,193	396	119	1,708	91	3,695
New Mexico .....	325	—	—	325	79	4
Texas .....	15,026	341	2,954	18,321	7,666	34,224
<b>PAD District 4</b> .....	<b>3,166</b>	<b>170</b>	<b>49</b>	<b>3,385</b>	<b>215</b>	<b>696</b>
Colorado .....	647	—	—	647	3	24
Idaho .....	322	—	—	322	—	—
Montana .....	971	67	—	1,038	73	23
Utah .....	572	22	49	643	57	588
Wyoming .....	654	81	—	735	82	61
<b>PAD District 5</b> .....	<b>11,576</b>	<b>226</b>	<b>509</b>	<b>12,311</b>	<b>5,228</b>	<b>1,653</b>
Alaska .....	1,069	—	36	1,105	291	1
Arizona .....	568	—	—	568	—	1,019
California .....	6,159	225	357	6,741	3,453	364
Hawaii .....	254	1	110	365	631	90
Nevada .....	373	—	6	379	—	—
Oregon .....	967	—	—	967	27	—
Washington .....	2,186	—	—	2,186	826	179
<b>U.S. Total</b> .....	<b>95,330</b>	<b>3,228</b>	<b>9,084</b>	<b>107,642</b>	<b>30,600</b>	<b>65,478</b>

— = No Data Reported.

<sup>1</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Note: Stocks are reported as of the last day of the month.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

**Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail <sup>1</sup> Between PAD Districts, July 2019**  
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
<b>Crude Oil</b> .....	<b>330</b>	<b>37</b>	<b>0</b>	<b>3,506</b>	<b>70,403</b>	<b>6,581</b>	<b>6,828</b>	<b>1,937</b>	<b>31,774</b>
<b>Petroleum Products</b> .....	<b>16,854</b>	<b>80</b>	<b>0</b>	<b>15,524</b>	<b>37,769</b>	<b>8,428</b>	<b>4,637</b>	<b>105,481</b>	<b>20,951</b>
<b>Natural Gas Liquids</b> .....	<b>6,217</b>	<b>54</b>	<b>0</b>	<b>2,210</b>	<b>25,722</b>	<b>4,635</b>	<b>423</b>	<b>891</b>	<b>7,449</b>
Ethane .....	4,508	0	—	0	9,290	641	—	0	853
Propane .....	934	0	0	1,717	8,596	2,175	158	891	835
Normal Butane .....	140	0	0	255	3,903	954	140	0	318
Isobutane .....	360	54	0	238	1,523	351	125	0	728
Natural Gasoline .....	275	0	—	0	2,410	514	—	0	4,715
Refinery Olefins .....	0	0	—	298	592	—	—	0	0
Ethylene .....	—	—	—	—	—	—	—	—	—
Propylene .....	0	0	—	298	592	—	—	0	0
Normal Butylene .....	—	—	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—	—	—
Unfinished Oils .....	18	0	—	0	888	—	—	0	213
Motor Gasoline Blending Components .....	7,474	0	0	1,236	1,738	1,506	0	59,870	8,317
Reformulated - RBOB .....	0	0	0	0	298	—	0	9,571	4,639
Conventional .....	7,474	0	0	1,236	1,440	1,506	0	50,299	3,678
CBOB .....	7,474	0	0	1,236	1,157	1,506	0	50,123	2,798
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	283	—	0	176	880
Renewable Fuels .....	0	0	0	9,358	5,058	548	4,074	275	0
Fuel Ethanol .....	0	0	0	9,225	4,891	490	3,724	230	0
Renewable Diesel Fuel <sup>2</sup> .....	0	0	0	133	167	57	350	45	0
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline .....	113	0	0	218	157	158	0	1,821	1,389
Reformulated .....	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	113	0	0	218	157	158	0	1,821	1,389
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—	—	—	—
Conventional Other .....	113	0	0	218	157	158	0	1,821	1,389
Finished Aviation Gasoline .....	0	0	—	0	0	—	—	118	25
Kerosene-Type Jet Fuel .....	331	0	0	87	0	943	0	15,919	1,615
Kerosene .....	—	0	—	0	0	—	—	32	—
Distillate Fuel Oil .....	2,701	0	0	1,038	1,693	638	0	25,087	1,470
15 ppm sulfur and under .....	2,701	0	0	1,038	1,693	638	0	23,794	1,415
Greater than 15 ppm to 500 ppm sulfur .....	0	0	—	—	0	—	—	—	55
Greater than 500 ppm sulfur .....	—	0	—	0	0	—	—	1,293	—
Residual Fuel Oil .....	0	0	—	—	1,103	—	—	—	0
Petrochemical Feedstocks .....	0	0	—	0	140	—	—	305	0
Naphtha for Petrochemical Feedstock Use .....	0	0	—	—	140	—	—	—	0
Other Oils for Petrochemical Feedstock Use .....	—	0	—	0	0	—	—	305	—
Special Naphthas .....	0	0	—	—	0	—	—	—	26
Lubricants .....	0	0	0	0	0	—	0	490	140
Waxes .....	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke .....	0	26	0	576	564	0	24	0	0
Asphalt and Road Oil .....	0	0	0	503	114	0	116	673	304
Miscellaneous Products .....	0	0	—	—	0	—	—	—	3
<b>Total</b> .....	<b>17,184</b>	<b>117</b>	<b>0</b>	<b>19,031</b>	<b>108,172</b>	<b>15,009</b>	<b>11,465</b>	<b>107,418</b>	<b>52,725</b>

See footnotes at end of table.

**Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail <sup>1</sup> Between PAD Districts, July 2019**  
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
<b>Crude Oil</b> .....	0	390	0	25,799	1,261	0	0	0	0
<b>Petroleum Products</b> .....	0	5,105	0	12,788	3,535	2,079	0	120	50
<b>Natural Gas Liquids</b> .....	0	169	0	11,480	3,322	86	0	0	0
Ethane .....	0	—	0	2,041	842	—	0	0	0
Propane .....	0	0	0	4,888	1,154	61	0	0	0
Normal Butane .....	0	132	0	2,082	391	25	0	0	0
Isobutane .....	0	37	0	862	320	0	0	0	0
Natural Gasoline .....	0	—	0	1,607	615	—	0	0	0
Refinery Olefins .....	—	—	0	0	0	—	0	0	—
Ethylene .....	—	—	—	—	—	—	—	—	—
Propylene .....	—	—	0	0	0	—	0	0	—
Normal Butylene .....	—	—	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—	—	—
Unfinished Oils .....	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components .....	0	3,777	0	212	0	958	0	0	0
Reformulated - RBOB .....	—	2,260	0	0	0	0	0	0	—
Conventional .....	0	1,517	0	212	0	958	0	0	0
CBOB .....	0	1,340	0	212	0	958	0	0	0
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	—	177	0	0	0	0	0	0	—
Renewable Fuels .....	0	399	0	0	0	27	0	0	50
Fuel Ethanol .....	0	287	0	0	0	27	0	0	0
Renewable Diesel Fuel <sup>2</sup> .....	0	112	0	0	0	0	0	0	50
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline .....	0	0	0	472	0	342	0	0	0
Reformulated .....	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	0	0	0	472	0	342	0	0	0
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—	—	—	—
Conventional Other .....	0	0	0	472	0	342	0	0	0
Finished Aviation Gasoline .....	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel .....	0	199	0	12	0	10	0	0	0
Kerosene .....	—	—	0	—	0	—	0	0	—
Distillate Fuel Oil .....	0	522	0	357	0	344	0	0	0
15 ppm sulfur and under .....	0	522	0	357	0	344	0	0	0
Greater than 15 ppm to 500 ppm sulfur .....	—	—	—	0	0	—	—	0	—
Greater than 500 ppm sulfur .....	—	—	0	—	0	—	0	0	—
Residual Fuel Oil .....	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks .....	—	—	0	0	0	—	0	0	—
Naphtha for Petrochemical Feedstock Use .....	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use .....	—	—	0	—	0	—	0	0	—
Special Naphthas .....	—	—	—	0	0	—	—	0	—
Lubricants .....	—	0	0	0	0	0	0	96	—
Waxes .....	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke .....	0	0	0	0	174	0	0	24	0
Asphalt and Road Oil .....	0	40	0	255	39	312	0	0	0
Miscellaneous Products .....	—	—	—	0	0	—	—	0	—
<b>Total</b> .....	0	5,495	0	38,587	4,796	2,079	0	120	50

— = No Data Reported.

<sup>1</sup> Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, July 2019**  
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
<b>Crude Oil</b> .....	<b>200</b>	<b>37</b>	<b>301</b>	<b>67,127</b>	<b>6,581</b>	<b>129</b>	<b>31,774</b>	<b>0</b>	<b>-</b>
<b>Petroleum Products</b> .....	<b>16,708</b>	<b>0</b>	<b>2,452</b>	<b>27,948</b>	<b>7,880</b>	<b>84,480</b>	<b>18,988</b>	<b>0</b>	<b>4,321</b>
Natural Gas Liquids .....	6,089	0	1,072	24,668	4,635	836	7,418	0	-
Ethane .....	4,508	0	0	9,290	641	0	853	0	-
Propane .....	885	0	1,072	7,979	2,175	836	835	0	-
Normal Butane .....	128	0	0	3,573	954	0	318	0	-
Isobutane .....	293	0	0	1,416	351	0	697	0	-
Natural Gasoline .....	275	0	0	2,410	514	0	4,715	0	-
Motor Gasoline Blending Components .....	7,474	0	540	1,455	1,506	47,561	7,608	0	3,600
Reformulated - RBOB .....	0	0	0	298	-	9,571	4,639	-	2,260
Conventional .....	7,474	0	540	1,157	1,506	37,990	2,969	0	1,340
CBOB .....	7,474	0	540	1,157	1,506	37,990	2,798	0	1,340
GTAB .....	-	-	-	-	-	-	-	-	-
Other .....	0	0	-	0	-	-	171	-	-
Renewable Fuels .....	-	-	-	-	-	-	-	-	-
Fuel Ethanol .....	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel <sup>1</sup> .....	-	-	-	-	-	-	-	-	-
Other Renewable Fuels .....	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline .....	113	0	201	132	158	762	1,122	0	0
Reformulated .....	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol .....	-	-	-	-	-	-	-	-	-
Reformulated Other .....	-	-	-	-	-	-	-	-	-
Conventional .....	113	0	201	132	158	762	1,122	0	0
Conventional Blended with Fuel Ethanol .....	-	-	-	-	-	-	-	-	-
Ed55 and Lower .....	-	-	-	-	-	-	-	-	-
Greater than Ed55 .....	-	-	-	-	-	-	-	-	-
Conventional Other .....	113	0	201	132	158	762	1,122	0	0
Finished Aviation Gasoline .....	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel .....	331	0	87	0	943	13,655	1,540	0	199
Kerosene .....	-	0	0	0	-	32	-	-	-
Distillate Fuel Oil .....	2,701	0	552	1,693	638	21,634	1,300	0	522
15 ppm sulfur and under .....	2,701	0	552	1,693	638	20,341	1,245	0	522
Greater than 15 ppm to 500 ppm sulfur .....	0	0	-	0	-	-	55	-	-
Greater than 500 ppm sulfur .....	-	0	0	0	-	1,293	-	-	-
Residual Fuel Oil .....	-	-	-	-	-	-	-	-	-
Miscellaneous Products .....	-	-	-	-	-	-	-	-	-
<b>Total</b> .....	<b>16,908</b>	<b>37</b>	<b>2,753</b>	<b>95,075</b>	<b>14,461</b>	<b>84,609</b>	<b>50,762</b>	<b>0</b>	<b>4,321</b>

See footnotes at end of table.

**Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, July 2019**  
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
<b>Crude Oil</b> .....	<b>0</b>	<b>25,799</b>	<b>335</b>	<b>—</b>	<b>0</b>	<b>0</b>
<b>Petroleum Products</b> .....	<b>0</b>	<b>12,533</b>	<b>3,322</b>	<b>1,654</b>	<b>0</b>	<b>0</b>
Natural Gas Liquids .....	0	11,480	3,322	—	0	0
Ethane .....	0	2,041	842	—	0	0
Propane .....	0	4,888	1,154	—	0	0
Normal Butane .....	0	2,082	391	—	0	0
Isobutane .....	0	862	320	—	0	0
Natural Gasoline .....	0	1,607	615	—	0	0
Motor Gasoline Blending Components .....	0	212	0	958	0	0
Reformulated - RBOB .....	0	0	0	0	0	—
Conventional .....	0	212	0	958	0	0
CBOB .....	0	212	0	958	0	0
GTAB .....	—	—	—	—	—	—
Other .....	—	0	0	—	0	—
Renewable Fuels .....	—	—	—	—	—	—
Fuel Ethanol .....	—	—	—	—	—	—
Renewable Diesel Fuel <sup>1</sup> .....	—	—	—	—	—	—
Other Renewable Fuels .....	—	—	—	—	—	—
Finished Motor Gasoline .....	0	472	0	342	0	0
Reformulated .....	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—
Conventional .....	0	472	0	342	0	0
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—
Conventional Other .....	0	472	0	342	0	0
Finished Aviation Gasoline .....	—	—	—	—	—	—
Kerosene-Type Jet Fuel .....	0	12	0	10	0	0
Kerosene .....	0	—	0	—	0	—
Distillate Fuel Oil .....	0	357	0	344	0	0
15 ppm sulfur and under .....	0	357	0	344	0	0
Greater than 15 ppm to 500 ppm sulfur .....	—	0	0	—	0	—
Greater than 500 ppm sulfur .....	0	—	0	—	0	—
Residual Fuel Oil .....	—	—	—	—	—	—
Miscellaneous Products .....	—	—	—	—	—	—
<b>Total</b> .....	<b>0</b>	<b>38,332</b>	<b>3,657</b>	<b>1,654</b>	<b>0</b>	<b>0</b>

— = No Data Reported.

<sup>1</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."



**Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, July 2019**  
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
<b>Crude Oil</b> .....	<b>130</b>	<b>0</b>	<b>—</b>	<b>308</b>	<b>2,808</b>	<b>—</b>
<b>Petroleum Products</b> .....	<b>18</b>	<b>0</b>	<b>0</b>	<b>1,470</b>	<b>2,887</b>	<b>0</b>
Natural Gas Liquids .....	—	0	—	0	0	—
Ethane .....	—	—	—	—	—	—
Propane .....	—	0	—	0	0	—
Normal Butane .....	—	—	—	—	—	—
Isobutane .....	—	—	—	—	—	—
Natural Gasoline .....	—	—	—	—	—	—
Unfinished Oils .....	18	0	—	0	888	—
Motor Gasoline Blending Components .....	0	0	0	696	283	0
Reformulated - RBOB .....	—	—	—	—	—	—
Conventional .....	0	0	0	696	283	0
CBOB .....	0	0	—	696	0	—
GTAB .....	—	—	—	—	—	—
Other .....	0	0	0	0	283	0
Renewable Fuels .....	0	0	—	221	448	—
Fuel Ethanol .....	0	0	—	221	403	—
Renewable Diesel Fuel <sup>1</sup> .....	0	0	—	—	45	—
Other Renewable Fuels .....	—	—	—	—	—	—
Finished Motor Gasoline .....	0	0	—	17	25	—
Reformulated .....	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—
Conventional .....	0	0	—	17	25	—
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—
Conventional Other .....	0	0	—	17	25	—
Finished Aviation Gasoline .....	0	0	—	0	0	—
Kerosene-Type Jet Fuel .....	0	0	—	0	0	—
Kerosene .....	—	—	—	—	—	—
Distillate Fuel Oil .....	0	0	—	486	0	—
15 ppm sulfur and under .....	0	0	—	486	0	—
Greater than 15 ppm to 500 ppm sulfur .....	—	—	—	—	—	—
Greater than 500 ppm sulfur .....	—	—	—	—	—	—
Residual Fuel Oil .....	0	0	—	—	1,103	—
Less than 0.31 percent sulfur .....	0	0	—	—	130	—
0.31 to 1.00 percent sulfur .....	—	—	—	—	—	—
Greater than 1.00 percent sulfur .....	0	0	—	—	973	—
Petrochemical Feedstocks .....	0	0	—	0	140	—
Naphtha for Petrochemical Feedstock Use .....	0	0	—	—	140	—
Other Oils for Petrochemical Feedstock Use .....	—	0	—	0	0	—
Special Naphthas .....	0	0	—	—	0	—
Lubricants .....	0	0	0	0	0	0
Waxes .....	—	—	—	—	—	—
Marketable Petroleum Coke .....	—	—	—	—	—	—
Asphalt and Road Oil .....	0	0	—	50	0	—
Miscellaneous Products .....	0	0	—	—	0	—
<b>Total</b> .....	<b>148</b>	<b>0</b>	<b>0</b>	<b>1,778</b>	<b>5,695</b>	<b>0</b>

See footnotes at end of table.

**Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, July 2019**  
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
<b>Crude Oil</b> .....	<b>1,808</b>	—	<b>1,808</b>	—	<b>0</b>	—	<b>0</b>	<b>0</b>	<b>0</b>
<b>Petroleum Products</b> .....	<b>20,725</b>	<b>35</b>	<b>879</b>	<b>19,811</b>	<b>1,873</b>	<b>177</b>	<b>0</b>	<b>0</b>	<b>96</b>
Natural Gas Liquids .....	28	—	—	28	—	—	0	—	0
Ethane .....	—	—	—	—	—	—	—	—	—
Propane .....	28	—	—	28	—	—	0	—	0
Normal Butane .....	—	—	—	—	—	—	—	—	—
Isobutane .....	—	—	—	—	—	—	—	—	—
Natural Gasoline .....	—	—	—	—	—	—	—	—	—
Unfinished Oils .....	0	—	—	—	213	—	0	0	0
Motor Gasoline Blending Components .....	12,309	—	176	12,133	709	177	0	0	0
Reformulated - RBOB .....	—	—	—	—	—	—	—	—	—
Conventional .....	12,309	—	176	12,133	709	177	0	0	0
CBOB .....	12,133	—	—	12,133	0	—	0	0	0
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	176	—	176	—	709	177	0	0	0
Renewable Fuels .....	230	—	—	230	0	—	0	0	0
Fuel Ethanol .....	230	—	—	230	0	—	0	0	0
Renewable Diesel Fuel <sup>1</sup> .....	—	—	—	—	0	—	—	0	0
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline .....	1,059	—	—	1,059	267	—	0	0	0
Reformulated .....	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	1,059	—	—	1,059	267	—	0	0	0
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—	—	—	—
Conventional Other .....	1,059	—	—	1,059	267	—	0	0	0
Finished Aviation Gasoline .....	118	35	—	83	25	—	0	0	0
Kerosene-Type Jet Fuel .....	2,264	—	—	2,264	75	—	0	0	0
Kerosene .....	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil .....	3,453	—	103	3,350	170	—	0	0	0
15 ppm sulfur and under .....	3,453	—	103	3,350	170	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur .....	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur .....	—	—	—	—	—	—	—	—	—
Residual Fuel Oil .....	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur .....	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur .....	—	—	—	—	—	—	—	—	—
Greater than 1.00 percent sulfur .....	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks .....	305	—	305	—	0	—	0	0	0
Naphtha for Petrochemical Feedstock Use .....	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use .....	305	—	305	—	—	—	0	—	0
Special Naphthas .....	—	—	—	—	26	—	—	0	0
Lubricants .....	490	—	247	243	140	0	0	0	96
Waxes .....	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke .....	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil .....	469	—	48	421	245	—	0	0	0
Miscellaneous Products .....	—	—	—	—	3	—	—	0	0
<b>Total</b> .....	<b>22,533</b>	<b>35</b>	<b>2,687</b>	<b>19,811</b>	<b>1,873</b>	<b>177</b>	<b>0</b>	<b>0</b>	<b>96</b>

— = No Data Reported.

<sup>1</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

**Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, July 2019**  
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil .....	0	0	0	0	2,897	468	0	6,828
Propane .....	49	0	0	0	645	617	0	158
Propylene .....	0	0	—	—	298	592	—	—
Normal Butane .....	12	0	0	0	255	330	0	140
Isobutane .....	67	54	0	0	238	107	0	125
Fuel Ethanol .....	0	0	0	0	9,004	4,488	490	3,724
Biodiesel .....	0	0	0	0	133	122	57	350
Marketable Petroleum Coke .....	0	26	0	0	576	564	0	24
Asphalt and Road Oil .....	0	0	0	0	453	114	0	116

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil .....	0	0	0	390	0	0	926	0
Propane .....	27	0	0	0	0	0	0	61
Propylene .....	0	0	—	—	0	0	0	—
Normal Butane .....	0	0	0	132	0	0	0	25
Isobutane .....	0	31	0	37	0	0	0	0
Fuel Ethanol .....	0	0	0	287	0	0	0	27
Biodiesel .....	45	0	0	112	0	0	0	0
Marketable Petroleum Coke .....	0	0	0	0	0	0	174	0
Asphalt and Road Oil .....	204	59	0	40	0	255	39	312

Commodity	From 5 to			
	1	2	3	4
Crude Oil .....	0	0	0	0
Propane .....	0	0	0	0
Propylene .....	0	0	0	—
Normal Butane .....	0	0	0	0
Isobutane .....	0	0	0	0
Fuel Ethanol .....	0	0	0	0
Biodiesel .....	0	0	0	50
Marketable Petroleum Coke .....	0	0	24	0
Asphalt and Road Oil .....	0	0	0	0

— = No Data Reported.

Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, July 2019**  
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
<b>From 1 to</b>				
2 .....	200	130	0	330
3 .....	37	0	0	37
4 .....	0	—	0	0
5 .....	—	—	0	0
<b>From 2 to</b>				
1 .....	301	308	2,897	3,506
3 .....	67,127	2,808	468	70,403
4 .....	6,581	—	0	6,581
5 .....	—	—	6,828	6,828
<b>From 3 to</b>				
1 .....	129	1,808	0	1,937
2 .....	31,774	0	0	31,774
4 .....	0	—	0	0
5 .....	—	—	390	390
<b>From 4 to</b>				
1 .....	0	0	0	0
2 .....	25,799	0	0	25,799
3 .....	335	0	926	1,261
5 .....	—	—	0	0
<b>From 5 to</b>				
1 .....	0	0	0	0
2 .....	0	0	0	0
3 .....	0	0	0	0
4 .....	0	—	0	0

— = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail <sup>1</sup> Between PAD Districts, July 2019**  
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
<b>Crude Oil</b>	<b>5,443</b>	<b>367</b>	<b>5,076</b>	<b>57,903</b>	<b>87,319</b>	<b>-29,416</b>	<b>71,701</b>	<b>34,101</b>	<b>37,601</b>
<b>Petroleum Products</b>	<b>121,005</b>	<b>16,934</b>	<b>104,071</b>	<b>50,593</b>	<b>66,358</b>	<b>-15,764</b>	<b>41,504</b>	<b>131,537</b>	<b>-90,034</b>
<b>Natural Gas Liquids</b>	<b>3,101</b>	<b>6,271</b>	<b>-3,170</b>	<b>25,146</b>	<b>32,990</b>	<b>-7,844</b>	<b>29,098</b>	<b>8,509</b>	<b>20,589</b>
Ethane	0	4,508	-4,508	7,402	9,931	-2,529	10,132	853	9,279
Propane	2,608	934	1,674	6,657	12,646	-5,989	9,750	1,726	8,024
Normal Butane	255	140	115	2,540	5,252	-2,712	4,294	450	3,844
Isobutane	238	414	-176	1,950	2,237	-287	1,897	765	1,132
Natural Gasoline	0	275	-275	6,597	2,924	3,673	3,025	4,715	-1,690
Refinery Olefins	298	0	298	0	890	-890	592	0	592
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	298	0	298	0	890	-890	592	0	592
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	18	-18	231	888	-657	888	213	675
Motor Gasoline Blending Components	61,106	7,474	53,632	16,003	4,480	11,523	1,738	71,964	-70,226
Reformulated - RBOB	9,571	0	9,571	4,639	298	4,341	298	16,470	-16,172
Conventional	51,535	7,474	44,061	11,364	4,182	7,182	1,440	55,494	-54,054
CBOB	51,359	7,474	43,885	10,484	3,899	6,585	1,157	54,261	-53,104
GTAB	0	0	-	-	-	-	0	0	-
Other	176	0	176	880	283	597	283	1,233	-950
Renewable Fuels	9,633	0	9,633	0	19,037	-19,037	5,058	674	4,384
Fuel Ethanol	9,455	0	9,455	0	18,330	-18,330	4,891	517	4,373
Renewable Diesel Fuel <sup>2</sup>	178	0	178	0	708	-708	167	156	11
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	2,039	113	1,926	1,974	533	1,441	157	3,210	-3,053
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	2,039	113	1,926	1,974	533	1,441	157	3,210	-3,053
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	2,039	113	1,926	1,974	533	1,441	157	3,210	-3,053
Finished Aviation Gasoline	118	0	118	25	0	25	0	143	-143
Kerosene-Type Jet Fuel	16,006	331	15,675	1,958	1,030	928	0	17,733	-17,733
Kerosene	32	0	32	0	0	-	0	32	-32
Distillate Fuel Oil	26,125	2,701	23,424	4,528	3,369	1,159	1,693	27,079	-25,386
15 ppm sulfur and under	24,832	2,701	22,131	4,473	3,369	1,104	1,693	25,731	-24,038
Greater than 15 ppm to 500 ppm sulfur	0	0	-	55	0	55	0	55	-55
Greater than 500 ppm sulfur	1,293	0	1,293	0	0	-	0	1,293	-1,293
Residual Fuel Oil	0	0	-	0	1,103	-1,103	1,103	0	1,103
Petrochemical Feedstocks	305	0	305	0	140	-140	140	305	-165
Naphtha for Petrochemical Feedstock Use	0	0	-	0	140	-140	140	0	140
Other Oils for Petrochemical Feedstock Use	305	0	305	0	0	-	0	305	-305
Special Naphthas	0	0	-	26	0	26	0	26	-26
Lubricants	490	0	490	140	0	140	96	630	-534
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	576	26	550	0	1,164	-1,164	788	0	788
Asphalt and Road Oil	1,176	0	1,176	559	734	-174	153	1,017	-864
Miscellaneous Products	0	0	-	3	0	3	0	3	-3
<b>Total</b>	<b>126,448</b>	<b>17,301</b>	<b>109,147</b>	<b>108,496</b>	<b>153,676</b>	<b>-45,180</b>	<b>113,205</b>	<b>165,638</b>	<b>-52,433</b>

See footnotes at end of table.

**Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail <sup>1</sup> Between PAD Districts, July 2019**  
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
<b>Crude Oil</b> .....	<b>6,581</b>	<b>27,060</b>	<b>-20,479</b>	<b>7,218</b>	<b>0</b>	<b>7,218</b>
<b>Petroleum Products</b> .....	<b>8,478</b>	<b>18,402</b>	<b>-9,924</b>	<b>11,821</b>	<b>170</b>	<b>11,651</b>
<b>Natural Gas Liquids</b> .....	<b>4,635</b>	<b>14,888</b>	<b>-10,253</b>	<b>678</b>	<b>0</b>	<b>678</b>
Ethane .....	641	2,883	-2,242	0	0	-
Propane .....	2,175	6,103	-3,928	219	0	219
Normal Butane .....	954	2,498	-1,544	297	0	297
Isobutane .....	351	1,182	-831	162	0	162
Natural Gasoline .....	514	2,222	-1,708	0	0	-
Refinery Olefins .....	0	0	-	0	0	-
Ethylene .....	-	-	-	-	-	-
Propylene .....	0	0	-	0	0	-
Normal Butylene .....	0	0	-	0	0	-
Isobutylene .....	0	0	-	0	0	-
Unfinished Oils .....	0	0	-	0	0	-
Motor Gasoline Blending Components .....	1,506	1,170	336	4,735	0	4,735
Reformulated - RBOB .....	-	-	-	2,260	0	2,260
Conventional .....	1,506	1,170	336	2,475	0	2,475
CBOB .....	1,506	1,170	336	2,298	0	2,298
GTAB .....	-	-	-	-	-	-
Other .....	0	0	-	177	0	177
Renewable Fuels .....	598	27	570	4,500	50	4,450
Fuel Ethanol .....	490	27	463	4,038	0	4,038
Renewable Diesel Fuel <sup>2</sup> .....	107	0	107	462	50	412
Other Renewable Fuels .....	-	-	-	0	0	-
Finished Motor Gasoline .....	158	814	-656	342	0	342
Reformulated .....	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol .....	-	-	-	0	0	-
Reformulated Other .....	-	-	-	-	-	-
Conventional .....	158	814	-656	342	0	342
Conventional Blended with Fuel Ethanol .....	0	0	-	0	0	-
Ed55 and Lower .....	0	0	-	0	0	-
Greater than Ed55 .....	0	0	-	0	0	-
Conventional Other .....	158	814	-656	342	0	342
Finished Aviation Gasoline .....	0	0	-	0	0	-
Kerosene-Type Jet Fuel .....	943	22	921	209	0	209
Kerosene .....	0	0	-	0	0	-
Distillate Fuel Oil .....	638	701	-63	866	0	866
15 ppm sulfur and under .....	638	701	-63	866	0	866
Greater than 15 ppm to 500 ppm sulfur .....	0	0	-	0	0	-
Greater than 500 ppm sulfur .....	0	0	-	0	0	-
Residual Fuel Oil .....	0	0	-	0	0	-
Petrochemical Feedstocks .....	-	-	-	0	0	-
Naphtha for Petrochemical Feedstock Use .....	-	-	-	0	0	-
Other Oils for Petrochemical Feedstock Use .....	-	-	-	-	-	-
Special Naphthas .....	-	-	-	0	0	-
Lubricants .....	0	0	-	0	96	-96
Waxes .....	0	0	-	0	0	-
Marketable Petroleum Coke .....	0	174	-174	24	24	0
Asphalt and Road Oil .....	0	606	-606	467	0	467
Miscellaneous Products .....	0	0	-	0	0	-
<b>Total</b> .....	<b>15,059</b>	<b>45,462</b>	<b>-30,404</b>	<b>19,039</b>	<b>170</b>	<b>18,869</b>

- = No Data Reported.

<sup>1</sup> Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

## Appendix A

# District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

### PAD District I

**East Coast:** The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

**Appalachian No. 1:** The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

### Sub-PAD District I

**New England:** The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

**Central Atlantic:** The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

**Lower Atlantic:** The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

### PAD District II

**Indiana-Illinois-Kentucky:** The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

**Minnesota-Wisconsin-North and South Dakota:** The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

**Oklahoma-Kansas-Missouri:** The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

### PAD District III

**Texas Inland:** The State of Texas except the Texas Gulf Coast District.

**Texas Gulf Coast:** The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

**Louisiana Gulf Coast:** The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

**North Louisiana-Arkansas:** The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

**New Mexico:** The State of New Mexico.

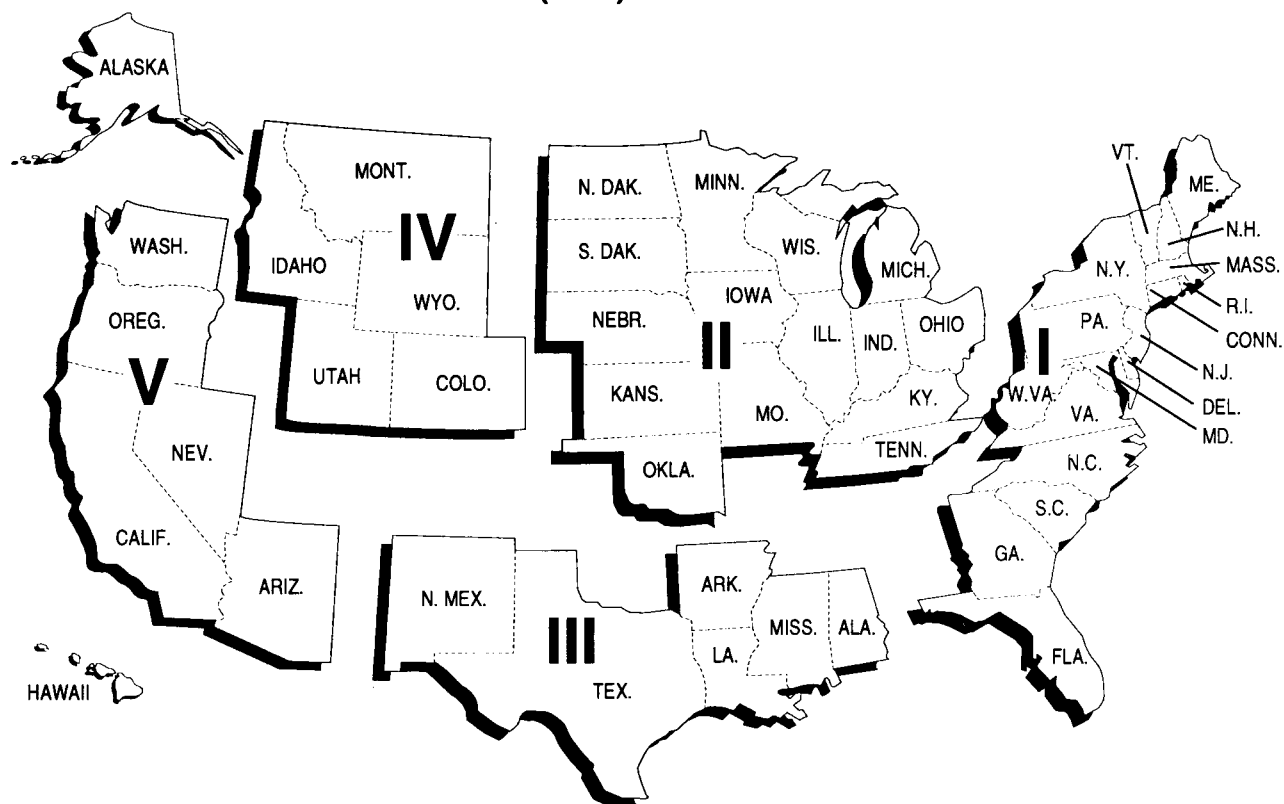
### PAD District IV

**Rocky Mountain:** The States of Montana, Idaho, Wyoming, Utah, and Colorado.

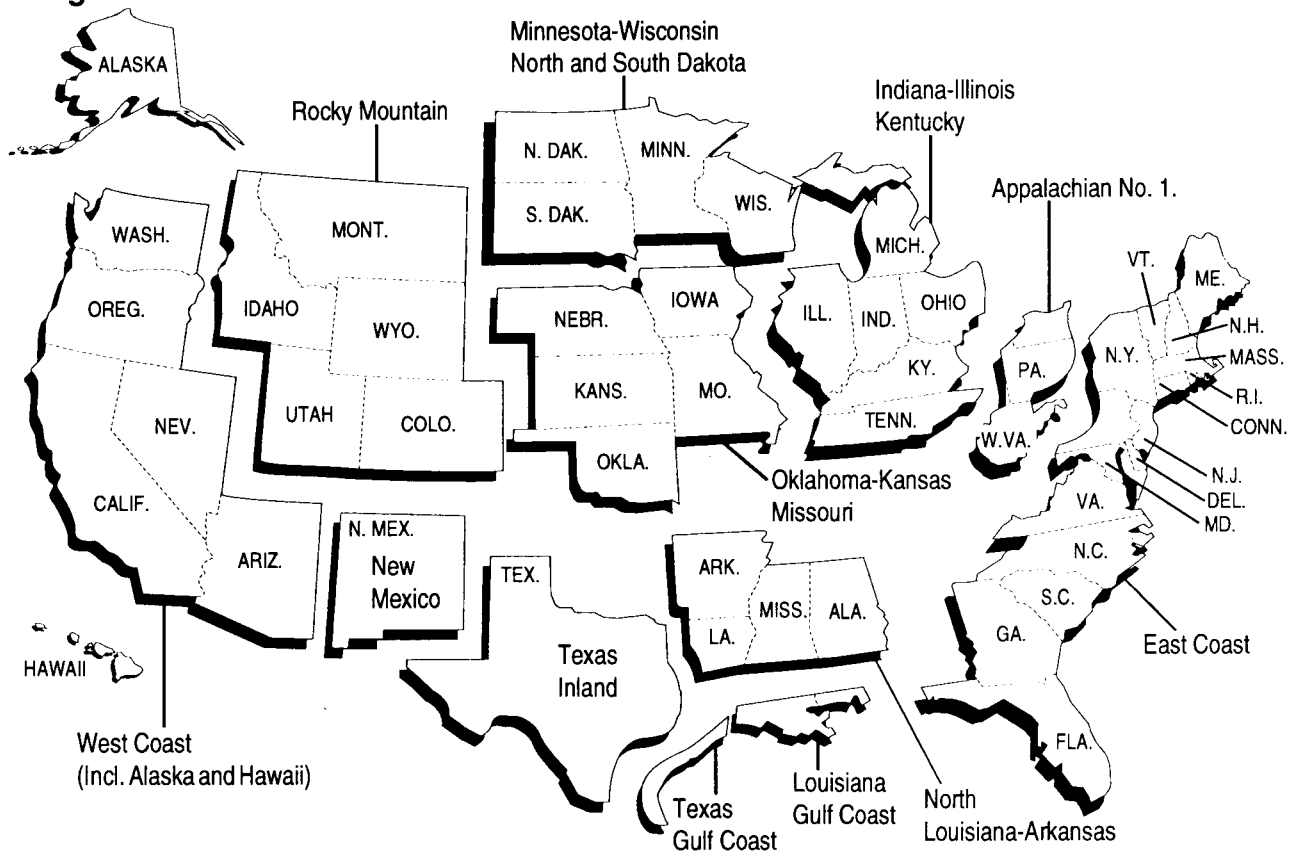
### PAD District V

**West Coast:** The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

## Petroleum Administration for Defense (PAD) Districts



## Refining Districts





## PSM Explanatory Notes

### Preface

The *Petroleum Supply Monthly (PSM)* is the monthly component of a series of three publications concerning the supply and disposition of crude oil and petroleum products produced by the Petroleum Division of the Energy Information Administration (EIA). The other two components are the *Weekly Petroleum Status Report (WPSR)* and the *Petroleum Supply Annual (PSA)*. Together these publications present a comprehensive snapshot of petroleum supply data on a weekly, monthly and yearly basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply: petroleum refiners, motor gasoline blenders, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of petroleum products and crude oil. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

The PSM tables present statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District level, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources.

Final statistics for the data series published in the *PSM* are published in the *PSA*. The *PSA* is published approximately five months after the end of the report year.

## Appendix B. Explanatory Notes

### 1. Overview

#### A. The Energy Information Administration's Quality Guidelines

The data contained in the *Petroleum Supply Monthly (PSM)* are subject to separate information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

#### B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM are often interpreted as an approximation of petroleum demand measured as product supplied. Product supplied is often called “implied” demand because it is a measure of demand that is implied by disappearance of petroleum products from facilities and activities in the “primary” supply chain. Facilities and activities in the primary supply chain include refineries and blending terminals, gas processing plants and fractionators, oxygenate producers, biodiesel producers, imports, exports, bulk storage terminals, and pipelines. Total product supplied in the PSM at the U.S. level is equal to the sum of field production, plus refinery and blender net production, plus renewable fuels, and oxygenate plant net production, plus imports, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports. Net receipts are added as a component of supply at the PAD District level. Crude oil product supplied is normally zero because crude oil is processed in refineries and rarely, if ever, used directly.

The secondary system is that portion of the overall distribution network that falls between producers and end-users. Product typically flows in bulk from the primary supply system into the secondary system before delivery in small quantities to consumers (the tertiary system). The secondary system includes storage at bulk plants; at retail motor fuel outlets, such as service stations, truck stops, and convenience stores; and at retail fuel oil dealers. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, by definition, receive product only by tank car or truck, not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, jet fuel stored in facilities operated by end users, and certain proprietary storage of raw materials (e.g. propane) for the chemical industry.

Data users sometimes consider demand as sales to the ultimate consumer or as the actual consumption of the product. Since there may be time delays between the movement of product into the primary market and its ultimate purchase or consumption, these definitions of demand require data on changes in secondary and/or tertiary stocks or the assumption that these values either remain constant or are small

compared to primary supply. The most recent study of secondary stocks was done by the National Petroleum Council in 1989. This study revealed that secondary distillate stocks were equal to about 6.9 percent of distillate stocks and 6.7 percent of distillate storage capacity.

#### C. Components of Supply and Disposition

The detailed statistics tables in the PSM provide complete supply and disposition information for the current month and year to date. The tables are organized to locate National and Petroleum Administration for Defense (PAD) District supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. To assist in the interpretation of these tables, the following discussion of supply, disposition, and ending stocks as shown in Tables 1– 25 is provided. The categories and products are defined in the EIA Glossary.

##### (1.) Supply

a. Field Production - Total Field Production is the sum of crude oil production and natural gas plant liquids and liquefied refinery gases production.

Crude oil production is an estimate based on data received from State conservation agencies and the Mineral Management Service of the U.S. Department of the Interior. Refer to “Domestic Crude Oil Production” in Section 2C (1) for further details.

Field production of natural gas plant liquids is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. Renewable Fuels and Oxygenate Plant Net Production - Renewable Fuels and Oxygenate Plant Net Production are reported on Forms EIA-819 and EIA-22M. Production includes oxygenates (fuel ethanol, ETBE, MTBE, and other oxygenates) plus negative production of pentanes plus, finished motor gasoline, and motor gasoline blending components added to fuel ethanol as denaturants as well as biodiesel. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reported as input during the same month.

c. Refinery and Blender Net Production – Refinery and Blender Net Production is reported on Form EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender net inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the

same month.

d. Imports - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

e. Net Receipts – Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 60.

f. Adjustments – This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, biodiesel (included in “Renewable Fuels Except Fuel Ethanol”) and distillate fuel oil. Adjustment quantities are derived either to balance supply and disposition for selected products or to reclassify one product to another product. Product supplied is the balancing item for most products and is interpreted as an implied measure of petroleum demand. Adjustments are used in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, renewable fuels and oxygenate plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Unless otherwise noted in Section 2C, adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District.

## (2.) Disposition

a. Stock Change – Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month’s publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. Refinery and Blender Net Inputs – Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, liquefied petroleum gases, pentanes plus, hydrogen, oxygenates, renewable fuels, and other hydrocarbons) that are processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Inputs of natural gas plant liquids are refinery input of natural gas liquids received from natural gas plants for blending and processing. Published inputs of natural gas plant liquids are reported on a gross basis.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery input minus refinery production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. Exports - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. Products Supplied - Products supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, (plus net receipts on a PAD District basis), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied value indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of inter-PAD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported, e.g., streams returned to refineries from petrochemical plants.

Beginning with data for January 2010, product supplied for crude oil is assumed equal to zero. Prior to January 1983, crude oil burned on leases and by pipelines as fuel was reported as either distillate or residual fuel oil and was included in product supplied for these products. From January 1983 through December 2009, crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report.” Reporting of crude oil used directly was discontinued on Form EIA-813 after December 2009.

## (3.) Ending Stocks

Ending stocks are primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals.

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks held by consumers. Product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported by EIA, but quantities held in selected government reserves are provided in Appendix D.

Primary stocks of crude oil included barrels held on producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in Petroleum Navigator were revised beginning with data for January 2005 to exclude lease stocks. Petroleum Navigator data may be accessed from the following locations on the EIA web site.

[http://www.eia.gov/dnav/pet/pet\\_sum\\_snd\\_d\\_nus\\_mbb1\\_m\\_cur.htm](http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbb1_m_cur.htm)  
[http://www.eia.gov/dnav/pet/pet\\_sum\\_crdsnd\\_k\\_m.htm](http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm)  
[http://www.eia.gov/dnav/pet/pet\\_stoc\\_typ\\_c\\_nus\\_EPC0\\_mbb1\\_m.htm](http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbb1_m.htm)

## 2. Components - Forms Discussions

The data presented in the PSM include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data obtained from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

### A. Petroleum Supply Reporting System

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and natural gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the seven weekly surveys. The MPSRS includes nine monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Terminal Blender Report,"
6. EIA-809, "Weekly Oxygenate Report,"
8. EIA-22M, "Monthly Biodiesel Production Survey,"
9. EIA-810, "Monthly Refinery Report,"
10. EIA-812, "Monthly Product Pipeline Report,"
11. EIA-813, "Monthly Crude Oil Report,"
12. EIA-814, "Monthly Imports Report,"
13. EIA-815, "Monthly Terminal Blender Report,"
14. EIA-816, "Monthly Natural Gas Liquids Report"
15. EIA-817, "Monthly Tanker and Barge Movement Report"
16. EIA-819, "Monthly Oxygenate Report"

### 17. EIA-820, "Annual Refinery Report."

Both weekly and monthly surveys are administered at six key points along the petroleum production and supply chain including refineries, fractionators, natural gas processing plants, bulk product storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and renewable fuel (biodiesel and fuel ethanol) and oxygenate producing plants. Monthly surveys also include inter-PAD District movements by pipelines, tankers, and barges. Weekly surveys do not capture petroleum movements. Respondents reporting on weekly surveys are sampled from among the respondents reporting on monthly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA-820, "Annual Refinery Report." The EIA-820 data are published in the annual "Refinery Capacity Report."

### B. Monthly Supply Survey Description and Methodology

#### (1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at: [http://www.eia.doe.gov/oil\\_gas/petroleum/survey\\_forms/pet\\_survey\\_forms.html](http://www.eia.doe.gov/oil_gas/petroleum/survey_forms/pet_survey_forms.html)

The Form EIA-22M "Monthly Biodiesel Production Survey" collects data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales.

The Form EIA-810, "Monthly Refinery Report," collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-812, "Monthly Product Pipeline Report," collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included. Product pipeline tank storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-813, "Monthly Crude Oil Report," collects data on end-of-month stock levels of crude oil held at pipeline and tank farms (associated with the pipelines) and terminals operated by the reporting company. Also, crude oil consumed by pipelines and on leases as pump fuel, boiler fuel, etc., is reported. Data are reported on a PAD District basis. Total Alaskan crude oil stocks in-transit by water (including stocks held at transshipment terminals between Alaska and the continental United States) to the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands are also reported by the transporting company having custody of the stocks. Inter-PAD District movements of crude oil by pipeline are collected by the shipping and receiving PAD District. Intermediate movements for pipeline systems operating in more than two PAD Districts

are not included. Crude oil storage capacity of tank farms is collected on a semi-annual basis.

The Form EIA-814, “Monthly Imports Report,” collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil, unfinished oils, and gasoline blending components only.

The Form EIA-815, “Monthly Terminal Blender Report,” collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on a semi-annual basis.

The Form EIA-816, “Monthly Natural Gas Liquids Report,” collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

The Form EIA-817, “Monthly Tanker and Barge Movement Report,” collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

The Form EIA-819, “Monthly Oxygenate Report” collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Data on end-of-month stocks are reported on a custody basis regardless of ownership. Fuel ethanol storage capacity is collected on a semi-annual basis.

## (2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities

currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of “Who Must Submit” participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M “Monthly Biodiesel Production Survey” include operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes.

Respondents to Form EIA-810, “Monthly Refinery Report” include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, “Monthly Product Pipeline Report” include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, “Monthly Crude Oil Report” include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, “Monthly Imports Report” include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, “Monthly Terminal Blender Report” include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands,

Guam, and other U. S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included.

Respondents to Form EIA-816, “Monthly Natural Gas Liquids Report” include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, “Monthly Tanker and Barge Movement Report” include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts are considered to have custody.

Respondents to Form EIA-819, “Monthly Oxygenate Report” include all operators of facilities that produce (manufacture or distill) oxygenates (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations located in the 50 States and the District of Columbia.)

### (3.) Collection

Survey data for the MPSRS are collected by facsimile, email, Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

### (4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies

result in further review of respondent data which in turn may result in additional flagged data and imputation.

### (5.) Estimation and Imputation

The nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Imputation is performed for companies that fail to file Forms EIA-22M, 810, 812, 813, 815, 816, and 819. For these companies, previous monthly values and values reported on the weekly survey forms are used if available. Data for nonrespondents to the Forms EIA-814 and 817 are not imputed because respondent-level data for these surveys are highly variable.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in the *Petroleum Supply Annual (PSA)*.

### (6.) Macro Editing

Monthly data are compared to weekly data on a regular basis. Discrepancies between weekly and monthly data are documented and respondents are called when discrepancies are either large (usually over 300 thousand barrels) or consistent (e.g., weekly data are always lower than monthly data). In addition, a comparison of the data collected on the PSRS with other similar data series from sources outside of the EIA is performed on an ongoing basis. Results of selected data comparisons are published once a year in the feature article, “Comparison of Independent Statistics on Petroleum Supply.” Additional comparisons are made between survey data and model results. Data reported in the Petroleum Supply Monthly and Petroleum Supply Annual are routinely imputed to correct for cases where comparison with other data suggests errors in survey data.

### (7.) Dissemination

The *PSM* data are normally released within 60 days of the close of the reference month. The *PSM* is available on the web at:

<http://www.eia.gov/petroleum/supply/monthly/>

Much of the *PSM* data are available on the web product, Petroleum Navigator. Petroleum Navigator provides an interface for accessing a comprehensive set of EIA’s petroleum data. Features include: downloadable spreadsheets containing complete data history, data tables which “pivot” to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum Navigator can be accessed at: <http://www.eia.gov/petroleum/data.cfm>

## C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the PSM are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

### (1.) Domestic Crude Oil Production

The interim estimate of U.S., PAD District, and state oil production for the current reference month, published in Tables 1 through 26 of the PSM, are based on:

- (a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;
- (b.) crude oil production data reported on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report." For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA-914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.
- (c.) first purchase data reported on Form EIA-182 "Domestic Crude Oil First Purchase Report." For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, "Production of Crude Oil by PAD District and State." Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly (<http://www.eia.gov/petroleum/supply/monthly/>) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum

Navigator and the Petroleum Supply Monthly roughly 60 days after the production month.

### (2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a "Shipper's Export Declaration Document" with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

### (3.) Movements of crude oil by railroad

The volume of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane moving by railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA's Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-915 survey starting in January 2015, and an estimation procedure developed by EIA for months in which data these data are not available.

Once the data necessary for calculating rail movements become available, which may take as long as 60 days after the end of a calendar quarter, EIA will revise the estimates made.

Movements of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane by rail are based on EIA analysis of carload data from the STB CWS. Additional data from the NEB, OGSM, and the EIA-915 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, propane, propylene, normal butane, and isobutane are converted to barrels using data from the CWS.

Carload data from the STB are available approximately 60 days after the end of each quarter. For example, carload data for the first quarter of each year are typically available by about June 1. Therefore, recent-month rail movements reported by EIA in the Petroleum Supply Monthly and Petroleum Navigator are modeled based on historical rail movement averages, medians, or correlations of rail movements derived from actual carload data with other regional supply data collected by EIA or other sources including field production, imports, refinery and blender inputs, movements other than rail, exports, and supply adjustments.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available through Petroleum Navigator on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum Navigator tables are updated with final data for a year from the Petroleum Supply Annual. Petroleum Supply Monthly and Petroleum Supply Annual tables released as PDF files will not be revised.

#### (4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the “lease adjustment,” a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the “lease adjustment” could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

#### (5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Plant Liquids (NGPL Adjustment)

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGPL injection into Alaskan crude oil transported in TAPS. Natural gas

processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGPL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGPL production is added to refinery receipts and inputs of NGPL. The adjusted NGPL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS-NGPL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and pentanes plus also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGPL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

#### (6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

**Note on MTBE Adjustment:** The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), “other” motor gasoline blending components, fuel ethanol, and MTBE. The quantity of GTAB and “other” motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each



PAD District. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and “other”. During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and “other” motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PAD District. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PAD Districts. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated

to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PAD District. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PAD District, then the total adjustment quantity of finished conventional motor gasoline in that PAD District would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

- Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, “other” finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PAD District.

#### (7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and renewable fuels and oxygenate plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PAD District equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, renewable fuels and oxygenate plant net production, and net receipts. Motor gasoline blending components adjustments are calculated for reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and “other” motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

#### (8.) Renewable Fuels including Fuel Ethanol Adjustment

Adjustment quantities for renewable fuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum

of renewable fuels and oxygenate plant net production and imports. Calculation of adjustment quantities by PAD District depends on the product. Individual products include fuel ethanol, biomass based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). Product supplied for renewable fuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and “other” renewable fuels are discussed separately below.

- Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of fuel ethanol between PAD Districts, and so allocation of fuel ethanol adjustments to PAD Districts is based on the ratio of fuel ethanol blending reported on surveys in each PAD District divided by fuel ethanol blending reported on surveys for the entire U.S. In this case, Fuel ethanol implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Fuel ethanol implied net receipts are the balancing item between total supply and disposition in each PAD District. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.

- The product category called “renewable fuels except fuel ethanol” includes biomass-based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). For PSM data prior to January 2012, renewable fuels except fuel ethanol adjustment quantities at the U.S. and PAD District levels were calculated as the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Renewable Fuels except Fuel Ethanol was unavailable and was excluded from Renewable Fuels and Oxygenate Plant Net Production. Therefore the calculation of adjustments to Renewable Fuels except Fuel Ethanol caused production to be included in the adjustment. Similarly, the calculation caused net inter-PAD District movements (i.e. net receipts) by rail and truck to also be included in adjustments to renewable fuels except fuel ethanol.

- Beginning with PSM data for January 2012, production of biodiesel reported on Form EIA-22M was included under the heading of “renewable fuels and oxygenate plant net production” in petroleum

supply and disposition balances for “renewable fuels except fuel ethanol”. As a result, the adjustment for “renewable fuels except fuel ethanol” no longer includes production of biodiesel. This change will also be made to revised monthly data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

- Biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of biodiesel between PAD Districts, and so allocation of fuel biodiesel adjustments to PAD Districts is based on the ratio of biomass-based diesel blending reported on surveys in each PAD District divided by biomass-based diesel fuel blending reported on surveys for the entire U.S. Biodiesel implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Biodiesel implied net receipts are the balancing item between total supply and disposition in each PAD District. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppm sulfur and under) through distillate fuel oil adjustments.

#### (9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 “Monthly Product Pipeline Report.” This adjustment was discontinued after publication of data for December 2010

Beginning with PSM data for January 2012, distillate fuel oil adjustments equal the opposite of biodiesel adjustments described above in section 7. Biodiesel adjustments are added to distillate fuel oil (15 ppm sulfur and under) and to total distillate fuel oil. Distillate fuel oil adjustment quantities are assumed to reflect biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Distillate fuel oil adjustments for biodiesel will also be added to revised data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

### (10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

### (11.) Other Hydrocarbon Adjustment

Adjustment quantities for “other” hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. “Other” hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for “other” hydrocarbons produced outside of refineries. There are no movements data collected on surveys for “other” hydrocarbons. Therefore, adjustment quantities include any net receipts of “other” hydrocarbons resulting from inter-PAD District movements.

### (12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

### (13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol).

## 3. Quality

### A. General Discussion

#### (1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article “Accuracy of Petroleum Supply Data.” Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

#### (2.) Non-sampling Errors

There are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

#### (3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the PSM has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the PSA. These values reflect all PSM resubmissions and other data corrections. The values contained in the PSA are EIA’s most accurate measure of petroleum supply activity.

#### (4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the Previously published Petroleum Supply Annual every month in the Petroleum Supply Navigator (<http://www.eia.gov/petroleum/supply/monthly/>). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in the Petroleum Supply Navigator.

## **B. Data Assessment**

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The PSM preliminary monthly data serve as leading indicators of the final monthly data published in the PSA. The PSM monthly data are not expected to have the same level of accuracy as the final monthly data published in the PSA. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the PSM are compared with the final monthly aggregates published in the PSA. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

### **4. Provisions Regarding Disclosure of Information**

All PSRS survey forms, with the exception of the Form EIA-814, "Monthly Imports Report," have the same general disclosure information statement. The information reported on Form EIA-814 will be considered "public information" and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form.

The information reported on Forms EIA-810 through 813, 815 through 817, 819, and 820 will be protected and not disclosed to the

public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the Department of Energy (DOE) regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data published from this survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

## Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

### Northeast Home Heating Oil Reserve classified as ultra-low sulfur distillate (15 parts per million)

Terminal Operator	Location	Thousand Barrels
Buckeye Partners LP	Port Reading, NJ	300
Buckeye Partners LP	Groton, CT	300
Global Companies LLC	Revere, MA	400

Source: U. S. Energy Information Administration

### Northeast Regional Refined Petroleum Product Reserve motor gasoline products

Terminal Operator	Location	Thousand Barrels
Kinder Morgan Liq Terminals LLC	Carteret, NJ	200
Buckeye Terminals LLC	Port Reading, NJ	0
Buckeye Terminals LLC	Raritan Bay, NJ	500
Global Companies LLC	Revere, MA	200
South Portland Terminal LLC	South Portland, ME	99

Source: U. S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at <http://energy.gov/fe/services/petroleum-reserves/>

## State of New York's Strategic Fuels Reserve Program

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	89
Fuel Ethanol	NY	10
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

# Definitions of Petroleum Products and Other Terms

(Revised May 2010)

**Alcohol.** The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group;  $\text{CH}_3\text{-(CH}_2\text{)}_n\text{-OH}$  (e.g., methanol, ethanol, and tertiary butyl alcohol).

**Alkylate.** The product of an alkylation reaction. It usually refers to the high octane product from alkylation units. This alkylate is used in blending high octane gasoline.

**Alkylation.** A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylene) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

**All Other Motor Gasoline Blending Components. See Motor Gasoline Blending Components.**

**API Gravity.** An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Degrees API} = \frac{141.5}{\text{sp. gr. @ } 60^\circ \text{ F}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

**Aromatics.** Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene (BTX).

**Asphalt.** A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. Note: The conversion factor for asphalt is 5.5 barrels per short ton.

**ASTM.** The acronym for the American Society for Testing and Materials.

**Atmospheric Crude Oil Distillation.** The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600 degrees Fahrenheit to 750 degrees Fahrenheit (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

**Aviation Gasoline (Finished).** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating

engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

**Aviation Gasoline Blending Components.** Naphthas which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformat, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

**Barrel.** A unit of volume equal to 42 U.S. gallons.

**Barrels Per Calendar Day.** The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see **Barrels per Stream Day**) to account for the following limitations that may delay, interrupt, or slow down production:

the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and

the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

**Barrels Per Stream Day.** The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

**Benzene ( $\text{C}_6\text{H}_6$ ).** An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

**Biomass-Based Diesel Fuel.** Biodiesel and other renewable diesel fuel or diesel fuel blending components derived from biomass, but excluding renewable diesel fuel coprocessed with petroleum

feedstocks.

**Blending Components.** See *Motor or Aviation Gasoline Blending Components*.

**Blending Plant.** A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

**Bonded Petroleum Imports.** Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

**BTX.** The acronym for the commercial petroleum aromatics benzene, toluene, and xylene. See individual categories for definitions.

**Bulk Station.** A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

**Bulk Terminal.** A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

**Butane ( $C_4H_{10}$ ).** A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

**Normal Butane ( $C_4H_{10}$ ).** A normally gaseous straight-chain hydrocarbon that is a colorless paraffinic gas which boils at a temperature of 31.1 degrees Fahrenheit and is extracted from natural gas or refinery gas streams.

**Refinery-Grade Butane ( $C_4H_{10}$ ).** A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

**Butylene ( $C_4H_8$ ).** An olefinic hydrocarbon recovered from refinery processes.

**Captive Refinery Oxygenate Plants.** Oxygenate production facilities located within or adjacent to a refinery complex.

**Catalytic Cracking.** The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

**Fresh Feeds.** Crude oil or petroleum distillates which are being fed to processing units for the first time.

**Recycled Feeds.** Feeds that are continuously fed back for additional processing.

**Catalytic Hydrocracking.** A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

**Catalytic Hydrotreating.** A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

**Catalytic Reforming.** A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic type hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

**Low Pressure.** A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

**High Pressure.** A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

**Charge Capacity.** The input (feed) capacity of the refinery processing facilities.

**Coal.** A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

**Commercial Kerosene-Type Jet Fuel.** See *Kerosene-Type Jet Fuel*.

**Conventional Blendstock for Oxygenate Blending (CBOB).** See *Motor Gasoline Blending Components*.

**Conventional Gasoline.** See *Motor Gasoline (Finished)*.

**Crude Oil.** A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include:

Small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled

with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included;

Small amounts of nonhydrocarbons produced from oil, such as sulfur and various metals;

Drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil is considered as either domestic or foreign, according to the following:

**Domestic.** Crude oil produced in the United States or from its Outer continental shelf as defined in 43 USC 1331.

**Foreign.** Crude oil produced outside the United States. Imported Athabasca hydrocarbons (tar sands from Canada) are included.

**Crude Oil, Refinery Receipts.** Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

**Crude Oil Losses.** Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

**Crude Oil Production.** The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

**Crude Oil Qualities.** Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

**Delayed Coking.** A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

**Desulfurization.** The removal of sulfur, as from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such

as adsorption. Desulfurization processes vary based on the type of stream treated (e.g., naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g., sulfur reduction to 10 ppm). See **Catalytic Hydrotreating**.

**Disposition.** The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

**Distillate Fuel Oil.** A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

**No. 1 Distillate.** A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.

**No. 1 Diesel Fuel.** A light distillate fuel oil that has a distillation temperature of 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles. See **No. 1 Distillate**.

**No. 1 Fuel Oil.** A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See **No. 1 Distillate**.

**No. 2 Distillate.** A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

**No. 2 Diesel Fuel.** A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines that are generally operated under uniform speed and load conditions, such as those in railroad locomotives, trucks, and automobiles. See **No. 2 Distillate**.

**Low Sulfur No. 2 Diesel Fuel.** No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

**High Sulfur No. 2 Diesel Fuel.** No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

**No. 2 Fuel Oil (Heating Oil).** A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in



atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See **No. 2 Distillate**.

**No. 4 Fuel.** A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms to ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

**No. 4 Diesel Fuel.** See **No. 4 Fuel**.

**No. 4 Fuel Oil.** See **No. 4 Fuel**.

**Electricity (Purchased).** Electricity purchased for refinery operations that is not produced within the refinery complex.

**Ending Stocks.** Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

**ETBE (Ethyl tertiary butyl ether) (CH<sub>3</sub>)<sub>3</sub>COC<sub>2</sub>H<sub>5</sub>.** An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

**Ethane (C<sub>2</sub>H<sub>6</sub>).** A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

**Ether.** A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

**Ethylene (C<sub>2</sub>H<sub>4</sub>).** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

**Exports.** Shipments of crude oil and petroleum products from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

**Field Production.** Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

**Flexicoking.** A thermal cracking process which converts heavy

hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

**Fluid Coking.** A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

**Fresh Feed Input.** Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1.) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2.) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

**Fuel Ethanol (C<sub>2</sub>H<sub>5</sub>OH).** An anhydrous alcohol (ethanol with less than 1% water) intended for gasoline blending as described in Oxygenates definition.

**Fuels Solvent Deasphalting.** A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

**Gas Oil.** A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

**Gasohol.** A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration of 10 percent or less by volume. Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside carbon monoxide nonattainment areas are included in data on oxygenated gasoline. See **Oxygenates**.

**Gasoline Blending Components.** Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

**Gasoline Treated as Blendstock (GTAB).** See **Motor Gasoline Blending Components**.

**Gross Input to Atmospheric Crude Oil Distillation Units.** Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

**Heavy Gas Oil.** Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

**High-Sulfur Distillate Fuel Oil.** Distillate fuel oil having sulfur content greater than 500 ppm.

**Hydrogen.** The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

**Idle Capacity.** The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

**Imported Crude Oil Burned As Fuel.** The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

**Imports.** Receipts of crude oil and petroleum products into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

**Isobutane ( $C_4H_{10}$ ).** A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

**Isobutylene ( $C_4H_8$ ).** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

**Isohexane ( $C_6H_{14}$ ).** A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

**Isomerization.** A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane ( $C_4$ ), an alkylation process feedstock, and normal pentane and hexane into isopentane ( $C_5$ ) and isohexane ( $C_6$ ), high-octane gasoline components.

**Isopentane.** See *Natural Gasoline and Isopentane*.

**Kerosene.** A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See *Kerosene-Type Jet Fuel*.

**Kerosene-Type Jet Fuel.** A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

**Commercial.** Kerosene-type jet fuel intended for use in commercial aircraft.

**Military.** Kerosene-type jet fuel intended for use in military aircraft.

**Lease Condensate.** A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. See *Natural Gas Liquids*.

**Light Gas Oils.** Liquid Petroleum distillates heavier than naphtha, with an approximate boiling range from 401 degrees Fahrenheit to 650 degrees Fahrenheit.

**Liquefied Petroleum Gases (LPG).** A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include: ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

**Liquefied Refinery Gases (LRG).** Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. Excludes still gas.

**Low-Sulfur Distillate Fuel Oil.** Distillate fuel oil having sulfur content greater than 15 ppm to 500 ppm. Low sulfur distillate fuel oil also includes product with sulfur content equal to or less than 15 ppm if the product is intended for pipeline shipment and the pipeline has a sulfur specification below 15 ppm.

**Lubricants.** Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases.

**Merchant Oxygenate Plants.** Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

**Methanol ( $CH_3OH$ ).** A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

**Middle Distillates.** A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

**Military Kerosene-Type Jet Fuel.** See *Kerosene-Type Jet Fuel*.

**Miscellaneous Products.** Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils). Note:

Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

**Motor Gasoline (Finished).** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline. Note: E85 is included only in volumetric data on finished motor gasoline production and other components of product supplied.

**Conventional Gasoline.** Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

**Ed 55 and Lower.** Finished conventional motor gasoline blended with a maximum of 55 volume percent denatured fuel ethanol.

**Greater than Ed55.** Finished conventional motor gasoline blended with denatured fuel ethanol where the volume percent of denatured fuel ethanol exceeds 55%.

**OPRG.** "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area.

**Oxygenated Gasoline (Including Gasohol).** Oxygenated gasoline includes all finished motor gasoline, other than reformulated gasoline, having oxygen content of 2.0 percent or higher by weight. Gasohol containing a minimum 5.7 percent ethanol by volume is included in oxygenated gasoline. Oxygenated gasoline was reported as a separate product from January 1993 until December 2003 inclusive. Beginning with monthly data for January 2004, oxygenated gasoline is included in conventional gasoline. Historical data for oxygenated gasoline excluded Federal Oxygenated Program Reformulated Gasoline (OPRG). Historical oxygenated gasoline data also excluded other reformulated gasoline with a seasonal oxygen requirement regardless of season.

**Reformulated Gasoline.** Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline

may not meet all of the composition requirements (e.g., oxygen content) of federal-program reformulated gasoline. Note: This category includes Oxygenated Fuels Program Reformulated Gasoline (OPRG). Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB).

**Reformulated (Blended with Alcohol).** Reformulated gasoline blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content.

**Reformulated (Blended with Ether).** Reformulated gasoline blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

**Reformulated (Non-Oxygenated).** Reformulated gasoline without added ether or alcohol components.

**Motor Gasoline Blending.** Mechanical mixing of motor gasoline blending components, and oxygenates when required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

**Motor Gasoline Blending Components.** Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

**Conventional Blendstock for Oxygenate Blending (CBOB).** Conventional gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. CBOB must become conventional gasoline after blending with oxygenates. Motor gasoline blending components that require blending other than with oxygenates to become finished conventional gasoline are reported as All Other Motor Gasoline Blending Components. Excludes reformulated blendstock for oxygenate blending (RBOB).

**Gasoline Treated as Blendstock (GTAB).** Non-certified Foreign Refinery gasoline classified by an importer as blendstock to be either blended or reclassified with respect to reformulated or conventional gasoline. GTAB was classified on EIA surveys as either reformulated or conventional based on emissions performance and the intended end use in data through the end of December 2009. Designation of GTAB as reformulated or conventional was discontinued beginning with data for January 2010. GTAB was reported as a single product beginning with data for January 2010. GTAB data for January 2010 and later months is presented as conventional

motor gasoline blending components when reported as a subset of motor gasoline blending components.

**Reformulated Blendstock for Oxygenate Blending (RBOB).** Specially produced reformulated gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. Includes RBOB used to meet requirements of the Federal reformulated gasoline program and other blendstock intended for blending with oxygenates to produce finished gasoline that meets or exceeds emissions performance requirements of Federal reformulated gasoline (e.g., California RBOB and Arizona RBOB). Excludes conventional gasoline blendstocks for oxygenate blending (CBOB).

**RBOB for Blending with Alcohol.** Motor gasoline blending components intended to be blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

**RBOB for Blending with Ether.** Motor gasoline blending components intended to be blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

**All Other Motor Gasoline Blending Components.** Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. Includes receipts and inputs of Gasoline Treated as Blendstock (GTAB). Excludes conventional blendstock for oxygenate blending (CBOB), reformulated blendstock for oxygenate blending, oxygenates (e.g. fuel ethanol and methyl tertiary butyl ether), butane, and pentanes plus.

**MTBE (Methyl tertiary butyl ether)  $(CH_3)_3COCH_3$ .** An ether intended for gasoline blending as described in Oxygenate definition.

**Naphtha.** A generic term applied to a petroleum fraction with an approximate boiling range between 122 degrees Fahrenheit and 400 degrees Fahrenheit.

**Naphtha Less Than 401° F.** See *Petrochemical Feedstocks*.

**Naphtha-Type Jet Fuel.** A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in *Miscellaneous Products*.

**Natural Gas.** A gaseous mixture of hydrocarbon compounds, the primary one being **methane**.

**Natural Gas Field Facility.** A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

**Natural Gas Liquids.** Those hydrocarbons in natural gas that are separated from the gas as liquids through the process of absorption, condensation, adsorption, or other methods in gas processing or cycling plants. Generally such liquids consist of propane and heavier hydrocarbons and are commonly referred to as lease condensate, natural gasoline, and liquefied petroleum gases. Natural gas liquids include natural gas plant liquids (primarily ethane, propane, butane, and isobutane; see *Natural Gas Plant Liquids*) and lease condensate (primarily pentanes produced from natural gas at lease separators and field facilities; see *Lease Condensate*).

**Natural Gas Plant Liquids.** Those hydrocarbons in natural gas that are separated as liquids at natural gas processing plants, fractionating and cycling plants, and, in some instances, field facilities. Lease condensate is excluded. Products obtained include ethane; liquefied petroleum gases (propane, butanes, propane-butane mixtures, ethane-propane mixtures); isopentane; and other small quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

**Natural Gas Processing Plant.** Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

**Natural Gasoline and Isopentane.** A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon,  $(C_5H_{12})$ , obtained by fractionation of natural gasoline or isomerization of normal pentane.

**Net Receipts.** The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

**Normal Butane.** See *Butane*.

**OPEC.** An intergovernmental organization whose stated objective is to coordinate and unify petroleum policies of member countries. It was created at the Baghdad Conference on September 10–14, 1960. Current and former members (with years of membership) include Algeria (1969-present), Angola (2007-present), Congo (Brazzaville) (June 2018-present), Ecuador (1973-1992 and 2007-present), Gabon (1975-1994 and July, 2016-present), Indonesia (1962-2008 and January, 2016-November, 2016), Iran (1960-present), Iraq (1960-present), Kuwait (1960-present), Libya (1962-present), Nigeria (1971-present), Qatar (1961-2018), Saudi Arabia (1960-present), United Arab Emirates (1967-present), and Venezuela (1960-present).

**Operable Capacity.** The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

**Operable Utilization Rate.** Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

**Operating Capacity.** The component of operable capacity that is in operation at the beginning of the period.

**Operating Utilization Rate.** Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

**Other Hydrocarbons.** Materials received by a refinery and consumed as a raw material. Includes hydrogen, coal tar derivatives and gilsonite. Excludes natural gas used for fuel or hydrogen feedstock.

**Other Oils Equal To or Greater Than 401° F.** See *Petrochemical Feedstocks*.

**Other Oxygenates.** Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

**Oxygenated Gasoline.** See *Motor Gasoline (Finished)*.

**Oxygenates.** Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Fuel Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

**Fuel Ethanol.** Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the “gasohol waiver”).

**Methanol.** Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the “ARCO” waiver).

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed 3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the “DuPont” waiver).

**MTBE (Methyl tertiary butyl ether).** Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that

the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the “Sun” waiver).

**Pentanes Plus.** A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

**Persian Gulf.** The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

**Petrochemical Feedstocks.** Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are “Naphtha Less Than 401° F” and “Other Oils Equal To or Greater Than 401° F.”

**Naphtha Less Than 401° F.** A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.

**Other Oils Equal To or Greater Than 401° F.** Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

**Petroleum Administration for Defense (PAD) Districts.** Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

**Petroleum Coke.** A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

**Catalyst Coke.** In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.

**Marketable Coke.** Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This “green” coke may be sold as is or further purified by calcining.

**Petroleum Products.** Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

**Pipeline (Petroleum).** Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intracompany pipelines) within the 50 States and the District of Columbia.

**Plant Condensate.** One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

**Processing Gain.** The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

**Processing Loss.** The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

**Product Supplied, Crude Oil.** Crude oil burned on leases and by pipelines as fuel.

**Production Capacity.** The maximum amount of product that can be produced from processing facilities.

**Products Supplied.** Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports.

**Propane ( $C_3H_8$ ).** A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

**Propylene ( $C_3H_6$ ).** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

**Propylene ( $C_3H_6$ ) (nonfuel use).** Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

**Refinery.** An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and oxygenates.

**Refinery-Grade Butane.** See *Butane*.

**Refinery Input, Crude Oil.** Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

**Refinery Input, Total.** The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

**Refinery Production.** Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

**Refinery Yield.** Refinery yield (expressed as a percentage) represents the percent of finished product produced from input of crude oil and net input of unfinished oils. It is calculated by dividing the sum of crude oil and net unfinished input into the individual net production of finished products. Before calculating the yield for finished motor gasoline, the input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components must be subtracted from the net production of finished motor gasoline. Before calculating the yield for finished aviation gasoline, input of aviation gasoline blending components must be subtracted from the net production of finished aviation gasoline.

**Reformulated Blendstock for Oxygenate Blending (RBOB).** See *Motor Gasoline Blending Components*.

**Reformulated Gasoline.** See *Motor Gasoline (Finished)*.

**Renewable Fuels (Other).** Fuels and fuel blending components, except biomass-based diesel fuel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

**Residual Fuel Oil.** A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

**Residuum.** Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000 degrees Fahrenheit.

**Road Oil.** Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

**Shell Storage Capacity.** The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity. Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

**Steam (Purchased).** Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

**Still Gas (Refinery Gas).** Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

**Stock Change.** The difference between stocks at the beginning of the reporting period and stocks at the end of the reporting period. Note: A negative number indicates a decrease (i.e., a drawdown) in stocks and a positive number indicates an increase (i.e., a buildup) in stocks during the reporting period.

**Strategic Petroleum Reserve (SPR).** Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

**Sulfur.** A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

**Supply.** The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

**TAME (Tertiary amyl methyl ether)  $(CH_3)_2(C_2H_5)COCH_3$ .** An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

**Tank Farm.** An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

**Tanker and Barge.** Vessels that transport crude oil or petroleum products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal

to a PAD District.

**TBA (Tertiary butyl alcohol)  $(CH_3)_3COH$ .** An alcohol primarily used as a chemical feedstock, a solvent or feedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

**Thermal Cracking.** A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., flexicoking). See individual categories for definition.

**Toluene  $(C_6H_5CH_3)$ .** Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

**Ultra-Low Sulfur Distillate Fuel Oil.** Distillate fuel oil having sulfur content of 15 ppm or lower. Ultra-low sulfur distillate fuel oil that will be shipped by pipeline must satisfy the sulfur specification of the shipping pipeline if the pipeline specification is below 15 ppm. Distillate fuel oil intended for pipeline shipment that fails to meet a pipeline sulfur specification that is below 15 ppm will be classified as low-sulfur distillate fuel oil.

**Unaccounted for Crude Oil.** Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

**Unfinished Oils.** All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

**Unfractionated Streams.** Mixtures of unsegregated natural gas liquid components excluding those in plant condensate. This product is extracted from natural gas.

**United States.** The United States is defined as the 50 States and the District of Columbia.

**Vacuum Distillation.** Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

**Visbreaking.** A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

**Wax.** A solid or semi-solid material at 77 degrees Fahrenheit consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point

(ASTM D 938) between 80 (or 85) and 240 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

**Working Storage Capacity.** The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

**Xylene ( $C_6H_4(CH_3)_2$ ).** Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.